ORDER NO. KM49910474C1
F12

Service Manual

Telephone Equipment

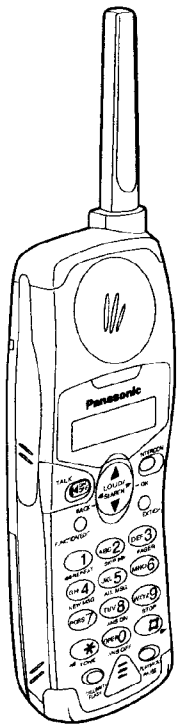
2.4GHz Cordless Answering System

KX-TG2570B
KX-TG2570S

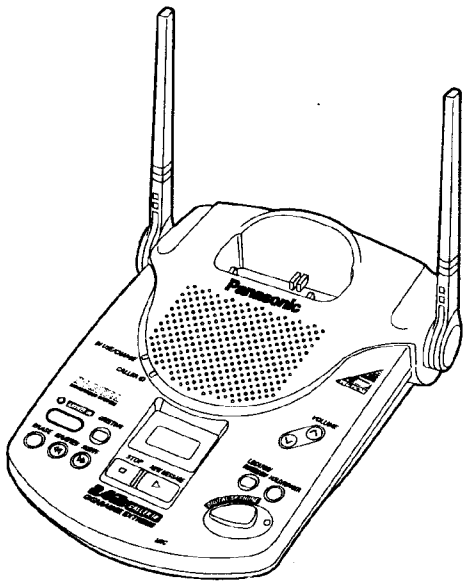
Black Version

Silver Version

(for U.S.A.)



(Handset)



(Base Unit)

Caller ID Compatible

■SPECIFICATIONS

	Base Unit	Handset
Power Source:	AC Adaptor (PQLV10Z)	Rechargeable Ni-MH battery
Receiving Frequency:	25 channels within 904.56~925.04 MHz	25 channels within 2.40616~2.47784 GHz
Receiving Method:	Double super heterodyne	Double super heterodyne
Transmitting Frequency:	25 channels within 2.40616~2.47784 GHz	25 channels within 904.56~925.04 MHz
Oscillation Method:	PLL synthesizer	PLL synthesizer
Detecting Method:	Quadrature Discriminator	Quadrature Discriminator
Tolerance of OSC Frequency:	± 3.6 kHz	± 3.6 kHz
Modulation Method:	F3 (frequency modulation)	F3 (frequency modulation)
ID Code:	20-bit	20-bit
Dial Mode:		Tone (DTMF)/Pulse
Directory:		Up to 22 digits
Power Consumption:		14 days at Standby, 3~9 hours at Talk
Dimension (H×W×D):	$2^{27}/_{32}$"×$6^{3}/_{8}$"×$8^{3}/_{32}$" (72×162×180 mm)	$8^{31}/_{32}$"×$2^{9}/_{32}$"×$1^{3}/_{8}$" (228×58×35 mm)
Weight	1.04 lbs. (470 g)	0.51 lbs. (230g) with battery

Design and specifications are subject to change without notice.

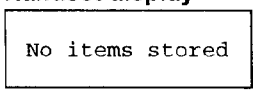
Panasonic

©1999 Kyushu Matsushita Electric Co., Ltd.
All rights reserved. Unauthorized copying and distribution is a violation of law.

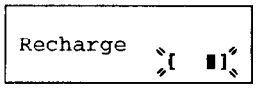
DISPLAY

Both the handset and the base unit show you information and instructions on their displays. These display prompts are shown below.

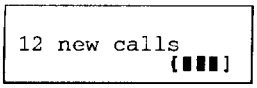
Handset display



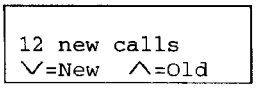
The Caller List is empty or there are no stored items in the directory.



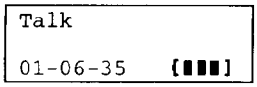
The battery needs to be charged. Place the handset on the base unit to charge the battery .



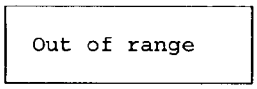
The display shows the number of new calls and the battery strength while the handset is on the base unit.



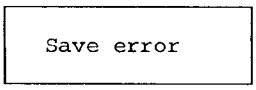
This display will be shown when:
— you lift the handset off the base unit, or
— ▼ or ▲ is pressed when the handset is off the base unit.
To search from the most recent call, press ▼ (New key). To search from the oldest call, press ▲ (Old key).



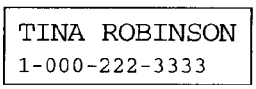
During a conversation, the display shows the length of the call (ex. 1 hour, 6 minutes and 35 seconds). The battery strength is also displayed.



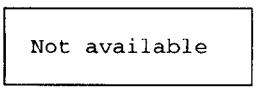
The handset has lost communication with the base unit. Move closer to the base unit.



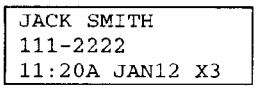
While programming, the handset lost communication with the base unit. Move closer to the base unit.



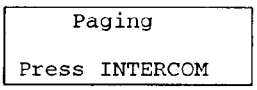
When a call is received, the display shows the caller's name and number after the first ring.



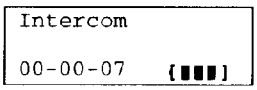
▼ or ▲, **OK** ►, **PLAYBACK/PAUSE** or **INTERCOM** was pressed while the base unit was not in the stand-by mode.



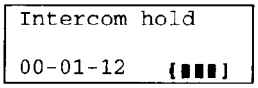
This is a name from the Caller List.
The display shows:
— the caller's name,
— the caller's number,
— the time and date of the last call (ex. Jan. 12, 11:20 AM), and
— the number of times called (ex. 3 times).



The base unit is paging the handset.



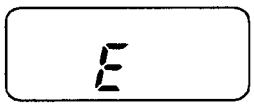
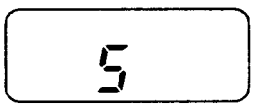
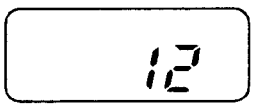
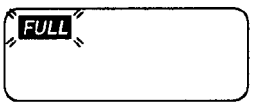
The handset and the base unit are in the intercom mode.



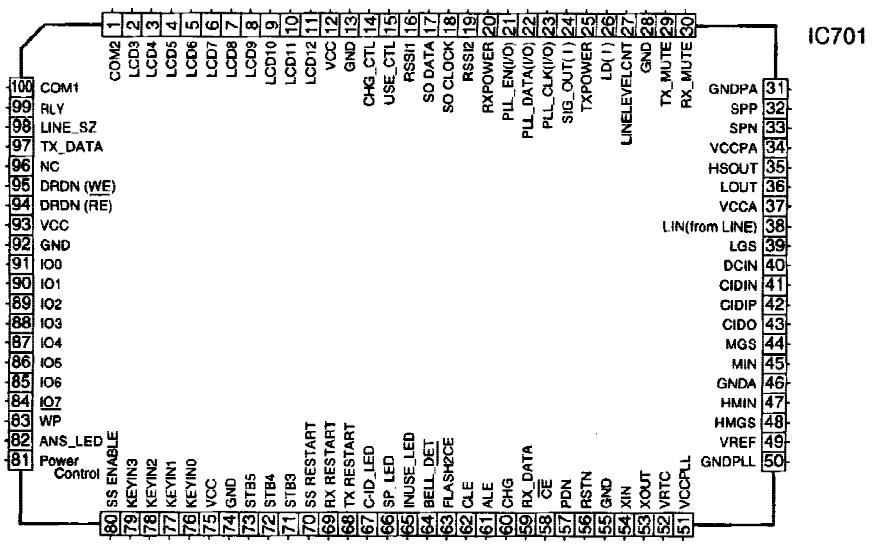
An outside call has been put on hold by the handset user in the intercom mode. To release the hold, press **TALK** or **DIGITAL SP-PHONE**.

NANCY BROWN 1-000-222-3333 ---- Waiting ----	A second call is received during a conversation.
Please lift up and try again	▼ or ▲ was pressed while the handset was on the base unit. Lift the handset and press ▼ or ▲ again.
Memory is full	When trying to store an item or Caller List information in the directory, the directory memory is full.
Ann 1234567890	This is a name from the directory. The stored name and phone number are displayed.
Answering system setting [■■■]	The unit is in answering system programming mode.
Remote operation [■■■]	The handset is operating the answering system remotely.

Base unit display

	The clock needs adjusting.
	Your greeting message was not recorded correctly. Record it again.
	The unit is in the answering system programming mode.
	The speaker volume level is set to "5". You can select: — 9 levels (0-8) while using the answering system. — 8 levels (1-8) while using the speakerphone.
	12 messages have been recorded.
	Memory is full. Erase some or all of the messages.
	The recording time is set to "greeting only". (The display is blank.)
	The base unit ringer volume is set to OFF.
	The pager call mode is set to ON.

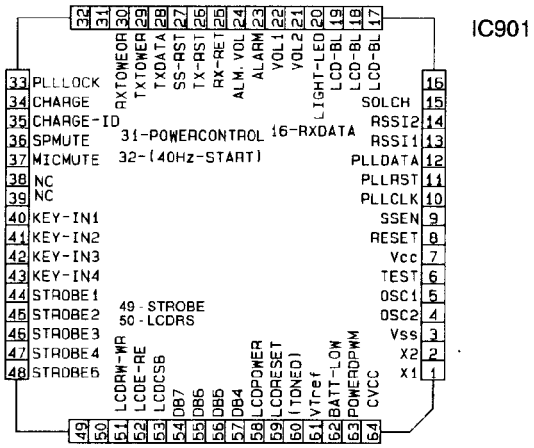
CPU DATA (Base Unit)



Pin	Description	I/O	High	High-Z	Low
1	COM2	O	Active	1/2Vcc	Active
2	LCD3	O	-	-	-
3	LCD4	O	-	-	-
4	LCD5	O	-	-	-
5	LCD6	O	-	-	-
6	LCD7	O	-	-	-
7	LCD8	O	-	-	-
8	LCD9	O	-	-	-
9	LCD10	O	-	-	-
10	LCD11	O	-	-	-
11	LCD12	O	-	-	-
12	VCC	-	-	-	-
13	GND	-	-	-	-
14	CHG_CTL	O		Normal	Trickle
15	USE_CTL	O	Rly off	-	Rly on
16	RSSI1	I	Strong Electric Field	-	Weak Electric Field
17	SO DATA	O	-	-	
18	SO CLOCK	O	-	-	
19	RSSI2	I	Strong Electric Field	-	Weak Electric Field
20	RXPOWER	O		OFF	ON
21	PLL_EN(I/O)	O	Latch	-	Normal
22	PLL_DATA(I/O)	O	Active	-	Normal
23	PLL_CLK(I/O)	O	Active	-	Normal
24	SIG_OUT(I)	I	Un Lock	-	Lock
25	TXPOWER	O		OFF	ON
26	LD(I)	I	Un Lock	-	Lock
27	LINELEVELCNT	O	SP	-	TAM
28	GND	-	-	-	-
29	TX_MUTE	O	Mute	-	Unmute
30	RX-MUTE	O	Mute	-	Unmute
31	GNDPA	-	-	-	-
32	SPP	-	-	-	-
33	SPN	-	-	-	-
34	VCCPA	-	-	-	-
35	HSOUT	-	-	-	-
36	LOUT	-	-	-	-
37	VCCA	-	-	-	-
38	LIN(from LINE)	-	-	-	-
39	LGS	-	-	-	-
40	DCIN	-	-	-	-
41	CIDIN	-	-	-	-
42	CIDIP	-	-	-	-
43	CIDO	-	-	-	-
44	MGS	-	-	-	-
45	MIN	-	-	-	-
46	GNDA	-	-	-	-
47	HMIN	-	-	-	-
48	HMGS	-	-	-	-
49	VREF	-	-	-	-
50	GNDPLL	-	-	-	-

Pin	Description	I/O	High	High-Z	Low
51	VCCPLL	-	-	-	-
52	VRTC	-	-	-	-
53	XOUT	-	-	-	-
54	XIN	-	-	-	-
55	GND	-	-	-	-
56	RSTN	I	Normal	-	Reset
57	PDN	I	-	-	Powerdown
58	CE	O	-	-	-
59	RX_DATA	I	Normal	-	Active
60	CHG	I	OFF Chg	-	ON Chg
61	ALE	-	-	-	-
62	CLE	-	-	-	-
63	FLASH2CE	-	Not used	-	Not used
64	BELL_DET	I	-	-	-
65	INUSE_LED	O	OFF	-	ON
66	SP_LED	O	OFF	-	ON
67	C-ID_LED	O	OFF	-	ON
68	TX RESTART	O		Normal	reset
69	RX RESTART	O		Normal	reset
70	SS RESTART	O		Normal	reset
71	STB3	O	Strobe	Normal	-
72	STB4	O	Strobe	Normal	-
73	STB5	O	Strobe	Normal	-
74	GND	-	-	-	-
75	VCC	-	-	-	-
76	KEYIN0	I	Key in	-	no press
77	KEYIN1	I	Key in	-	no press
78	KEYIN2	I	Key in	-	no press
79	KEYIN3	I	Key in	-	no press
80	SS ENABLE	O	SS ASIC	-	PLL
81	Power Control	O	ON	-	OFF
82	ANS_LED	O	ON	-	OFF
83	WP	I/O	Enable	-	disable
84	IO7	I/O	-	-	-
85	IO6	I/O	-	-	-
86	IO5	I/O	-	-	-
87	IO4	I/O	-	-	-
88	IO3	I/O	-	-	-
89	IO2	I/O	-	-	-
90	IO1	I/O	-	-	-
91	IO0	I/O	-	-	-
92	GND	-	-	-	-
93	VCC	-	-	-	-
94	DRDN(RE)	-	-	-	-
95	DWRN(WE)	-	-	-	-
96	NC	O	-	-	-
97	TX_DATA	O	Active	-	Normal
98	LINE_SZ	O	ON	-	OFF
99	RLY	O	ON	-	OFF
100	COM1	O	-	-	-

CPU DATA (Handset)

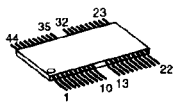
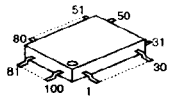
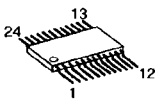
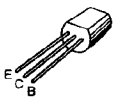
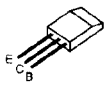
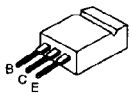
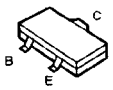
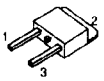
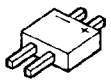
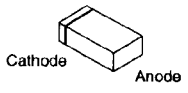
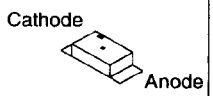
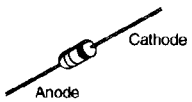
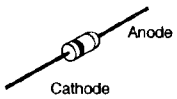
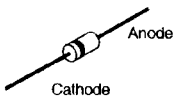


Pin	I/O	Name	High	High-Z	Low
1	I	X1	-	-	-
2	O	X2	-	-	-
3	I	GND	-	-	Fixed
4	O	OSC1	Active	-	Active
5	I	OSC2	Active	-	Active
6	I	TEST terminal	-	-	Fixed
7	I	Pow er supply	Fixed	-	-
8	I	RESET	Normal	-	Reset
9	I/O	SSEN	Active	-	OFF
10	I/O	PLL_CLOCK	Active	-	Active
11	I/O	PLL_RST	OFF	-	Active
12	I/O	PLL_DATA	Active	-	Active
13	I/O	RSSI1	Electric field	-	None
14	I/O	RSSI2	Electric field	-	None
15	I/O	SQLCH	Noise	-	Electric field
16	I/O	RXDATA	Active	-	Active
17	I/O	LCD BACKLED	-	OFF	ON
18	I/O	LCD BACKLED	-	OFF	ON
19	I/O	LCD BACKLED	-	OFF	ON
20	I/O	BATT LOW ST	-	OFF	ON
21	I/O	VOL2	High	-	Low
22	I/O	VOL1	High	-	Low
23	I/O	ALARM	Active	-	Active
24	I/O	ALR_VOL	Low	-	High
25	I/O	RX RESET	Normal	-	Reset
26	I/O	TX RESET	Normal	-	Reset
27	I/O	SS RESET	Normal	-	Reset
28	I/O	TX DATA	Active	-	Active
29	I/O	TX POWER	-	OFF	ON
30	I/O	RX POWER	-	OFF	ON
31	I/O	POWER CTL	Low	-	High
32	I/O	40Hz START	ON	-	OFF

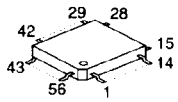
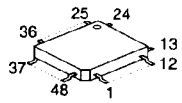
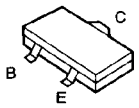
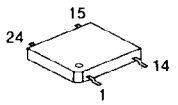
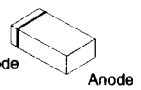
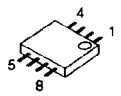
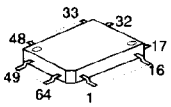
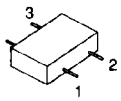
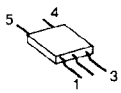
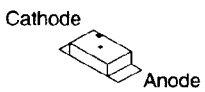
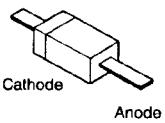
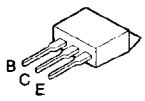
Pin	I/O	Name	High	High-Z	Low
33	I/O	PLL UNLOCK	Unlock	-	Lock
34	I/O	CHARGE	Normal	-	Charge
35	I/O	CHARGE ID	Active	-	Active
36	I/O	SP MUTE	Mute	-	OFF
37	I/O	MIC MUTE	Mute	-	OFF
38	I/O	LIGHTED LED	ON	-	OFF
39	I/O	Not used	-	-	Fixed
40	I/O	KEY IN	OFF	-	ON
41	I/O	KEY IN	OFF	-	ON
42	I/O	KEY IN	OFF	-	ON
43	I/O	KEY IN	OFF	-	ON
44	I/O	KEY STRB	-	Normal	ON
45	I/O	KEY STRB	-	Normal	ON
46	I/O	KEY STRB	-	Normal	ON
47	I/O	KEY STRB	-	Normal	ON
48	I/O	KEY STRB	-	Normal	ON
49	I/O	KEY STRB	-	Normal	ON
50	I/O	LCD RS	Register	-	Data
51	I/O	LCD RW_WR	Read	-	Write
52	I/O	LCD E_RD	Active	-	Active
53	I/O	LCD CSB	OFF	-	Active
54	I/O	DB7	Active	-	Active
55	I/O	DB6	Active	-	Active
56	I/O	DB5	Active	-	Active
57	I/O	DB4	Active	-	Active
58	I/O	LCD POWER	OFF	-	ON
59	I/O	LCD RESET	Normal	-	Reset
60	I/O	DTMF	-	-	-
61	I/O	DTMF LEVEL	-	-	-
62	I/O	BATT LOW	Normal	-	Low
63	I/O	POWER DOWN	Normal	-	Dow n
64	I/O	CVCC	-	-	-

TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

(BASE UNIT)

 PQWITG2570BH	 PQVI16559ADB	 AN6137SB	 2SA1625 2SC2120 PQVT2N6517CA	2SA1309
 2SD1004A	 2SD2136 2SD2137	 2SD1819A, 2SD601R MA153, UN5113, UN5216	 PQVIBA06FPE2	 PQVDS1ZB40F1
 MA111 MA8039 PQVDEC10	 PQVDPY1112H PQVDSML210LT	 MA4020, MA4039 MA4043, MA4051	 MA4180 MA4300	 PQVDS5688G

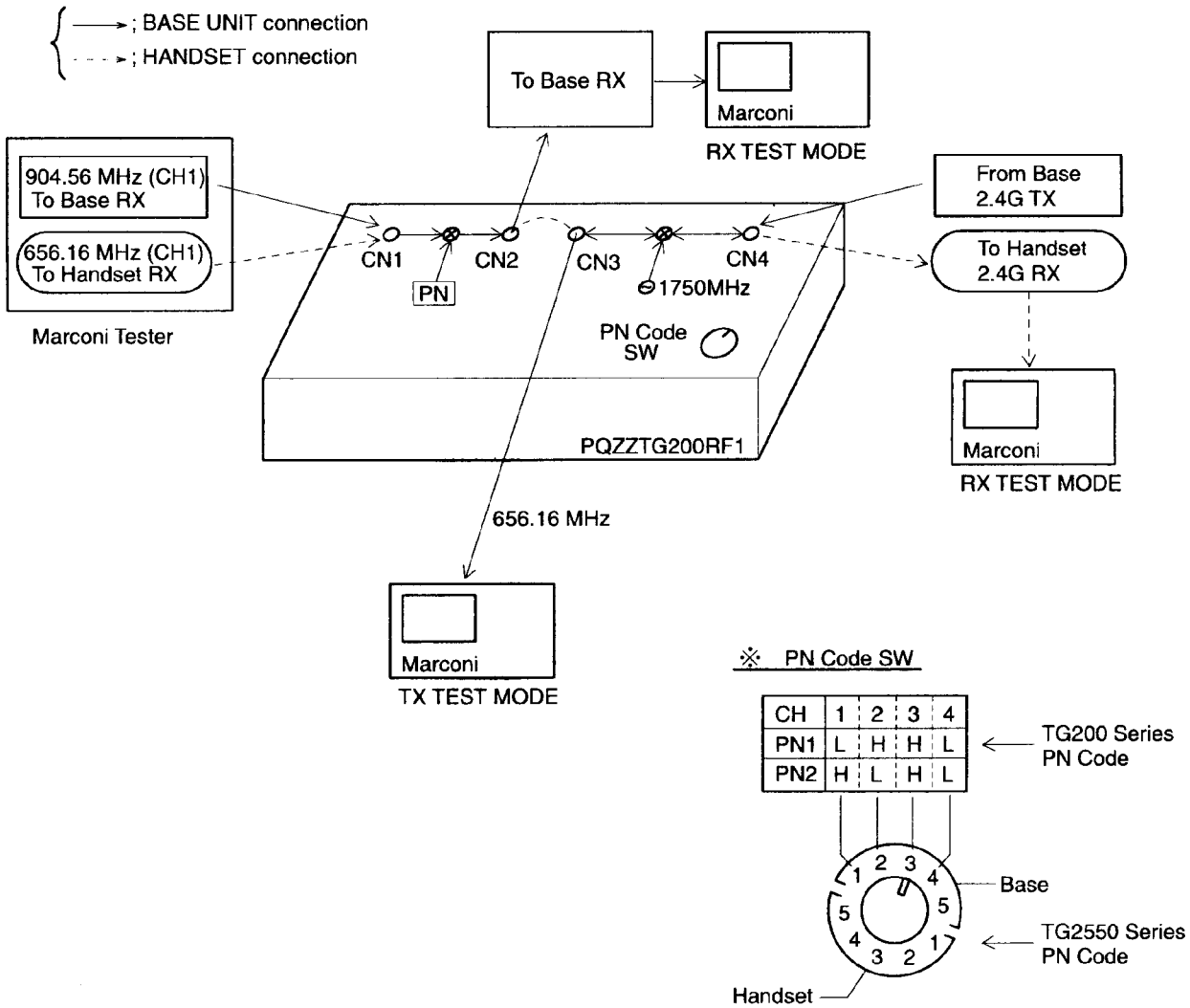
(HANDSET)

 AN6139FA	 NN6865FHQ	 PQVTD123T146,2SD1819A,UN5213, PQVTDTC114TU,2SB1218A,PQVTD123J106, 2SC4571R77,2SC4099NT106,2SA1036KQ146, PQVTDTC144TU,PQVTDTA143TU,PQVTDTC143E		 AN6138SHE1
 MA8150, MA111, MA728	 PQVINJM2904V	 PQVIMB8L3040, PQVI3625Q10H	 2SC5454	 PQVIMM1385EN, PQVIMM1385HN
 PQVDSML310MT	 PQVDPTZTE25, PQVDEC10	 2SC4536		

TEST MODE SETTING

■ KX-TG2570B Test Equipment (PQZZTG200RF1)

1.Set PN code (refer to Frequency Table) by PN code SW below.
When you think that you want to set Test Mode on CH8, you have to set PN code 3.
2.Power on
3.Connect to other Equipments.



※ PN Code SW

CH	1	2	3	4
PN1	L	H	H	L
PN2	H	L	H	L

← TG200 Series PN Code

Base

← TG2550 Series PN Code

Handset

CN3 and CN4 compose down convertor.
(CN3 Output Signal Frequency) = (CN4 Input Signal Frequency) - 1750MHz

< for example >
CN4 CN5 CN3
2406.160 MHz - 1750.0 MHz = 656.160 MHz
(CH1)

■ **FREQUENCY TABLE (MHz)**

CH	Base Unit Tx Frequency	PN	Base Unit Rx Frequency
1	2406.16	1	904.56
2	2406.40	2	904.68
3	2406.64	3	904.80
4	2406.88	4	904.92
5	2407.12	5	905.04
6	2423.84	1	909.56
7	2424.08	2	909.68
8	2424.32	3	909.80
9	2424.56	4	909.92
10	2424.80	5	910.04
11	2441.52	1	914.56
12	2441.76	2	914.68
13	2442.00	3	914.80
14	2442.24	4	914.92
15	2442.48	5	915.04
16	2459.20	1	919.56
17	2459.44	2	919.68
18	2459.68	3	919.80
19	2459.92	4	919.92
20	2460.16	5	920.24
21	2476.88	1	924.56
22	2477.12	2	924.68
23	2477.36	3	924.80
24	2477.60	4	924.92
25	2477.84	5	925.04

In the test mode the default of PN is "1" in all channels. Without pressing "HOLD/RINGER" key on base unit. (if PN is not set), PN of jig is measurable in all channels as it is.

■ KX-TG2570B Test Mode

(Handset)
1.Supply DC 3.9V.
2.Press "TALK" key.
3.While flash LED, press "5" , "8" , "0" , at the same tone.
4.Press "INTERCOM" Button.
5.Press channel No.2 digit. (CH2 → "0" and "2" .)
6.Press "#" key. (SS-Restart "on")
7.Press "TALK" key.

(Base Unit)
1.Connect AC adaptor, while pressing "Volume up", "Volume down", and "LOCATOR / INTERCOM" key at the same time.
2.Press "Locator / INTERCOM" key.
3.(Defalut channel is set CH1.)
4.Press "ANSWER" key.(SS-Restart "on")
5.Press "LCATOR / INTERCOM" key. Test Mode setting finish.

■ KX-TG2570B Mode Setting

(Measurement Items)	TX POWER	SS Mode
Tx		
1.Standard Frequency (Carrier Frequency)	High	off
2.Transmit Power	High	on
3.Modulation Level	High	off
Rx		
1.All Items	High	on

	Default setting value in the test mode		→ Switching	
Mode	Handset	Base	Handset	Base
TX POWER	Low	off	"8" key Low → High	"STOP" key off → on
PN	1	1	"FLASH" key 1→2→3→4→5	—
SS	on	on	"0" key on → off	"GREETING" key on → off
SS-Restart	off	off	"#" key on → off	"ANSWER ON" key on → off
Channel	1	1	—	Volume ⓐ +10ch ⓥ +1ch
Volume	Middle	—	—	—

ADJUSTMENT

OBJECTIVE

This procedure will enable the technician to make adjustments to the KX-TG2570B HANDSET and BASE UNIT.

GENERAL INFORMATION

This procedure has 2 sections. The first section instructs the technician on how to align the HANDSET. We recommend aligning the HANDSET first, since you will need the HANDSET to align the BASE UNIT. The second section aligns the BASE UNIT. You can use either section separately, or together to align the entire cordless phone unit.

At the beginning of each section, you will find a preparation procedure instructing you on how to prepare the unit to the point of placing the unit in TEST mode. Please follow this procedure to insure proper alignment.

Each section's procedure consists of Adjustment Items adjusting one specific variable hardware component.
Each Item lists the equipment needed, how to connect and setup the equipment, how to make the adjustment, and how to verify the adjustment if necessary.

Before the actual procedure, you will find a procedure detailing how to place that part in TEST mode. You will have to perform this procedure before each individual Adjustment Item.

Once aligned, please remove all equipment connections and solder points, and reassemble the unit. As a final check, power up the phone and check for HANDSET linking with the BASE UNIT.

EQUIPMENT

1. Marconi : Model 2945A
2. Jig (PQZZTG200RF1)
3. Oscilloscope, single or dual channel : Panasonic VP-5512P100 or compatible.
4. Telephone Analyzer : B&K Model 1050 or compatible.
5. DC Power Supply, capable of supply 3.9V DC at 850mA NOTE : only needed if Telephone Analyzer does not have DC VOLTS output available.
6. High Frequency Attenuator, 10dB or greater.
7. Corded Telephone.
8. High Frequency Cable : RG-188A/U.
9. Audio Cable : BNC end to alligator clip end.
10. HOZAN D-280 ceramic screw driver.
11. Isolation Capacitors, quantity of 2, part No. ECEA1HU100.
12. Soldering Iron, solder, and various tools.

HOW TO CHECK THE RF UNIT (Base Unit)

Base Unit

1) Warm up the Marconi Radio Tester, for at least 30 minutes to allow internal crystal oscillation to become stable.
2) Please refer to figures in page 21 for base unit wire connection.
3) Connect the AC Adaptor (PQLV10Z) , while pressing "Volume up", "Volume down", and "LOCATOR / INTERCOM" key at the same time.
4) Press "LOCATOR / INTERCOM" button.
5) Press "ANSWER" key to TP_TEST2-TPS4 on.
6) Press "LOCATOR / INTERCOM" button.

Carrier Frequency Check: (□ indicates the button of Marconi.)

1. Solder RF cable to 2.4G Tx ANT and RF GND.
2. Press "GREETING" button and set SS Mode to be OFF.
   TP Tx ANA pull up wire close.
3. Press "STOP" button and set to TX Power ON mode.
4. Set Marconi: [Tx Test] : Select "Tx Test" Mode
5. Input Carrier Frequency of Base Unit. (CH1)
   Freq.=(2406.160 MHz) - 1750MHz = 656.160MHz (Don't press "Auto Tune" key.
   After inputting the CH1 frequency, confirm the it's frequency difference.)
6. Check TX Frequency as shown on CRT. This should be **656.160 MHz ± 3kHz,** (offset ≦ ±3kHz).
7. Adjust value of VC790 so that it is **656.160 MHz ± 3kHz** (offset ≦ ±3kHz).
   When VC790 cannot be adjusted at this value, replace RF unit.

Transmit Power Check: (□indicates the button of Marconi.)

Press "STOP" button (TX Power on)
"GREETING" button (SS on)
TP Tx ANA pull up wire open.
Set Marconi: [Tx Test] : Select "Tx Test" Mode
[TX Power]
[Broad/Narrow] : Select "Broad" Band Mode

Check **TX Power** reading more than +20 dBm - (Jig Loss from CN4 to CN3). When this value is NG, replace RF unit.

Receiving Sensitivity Check: (□indicates the button of Marconi.)

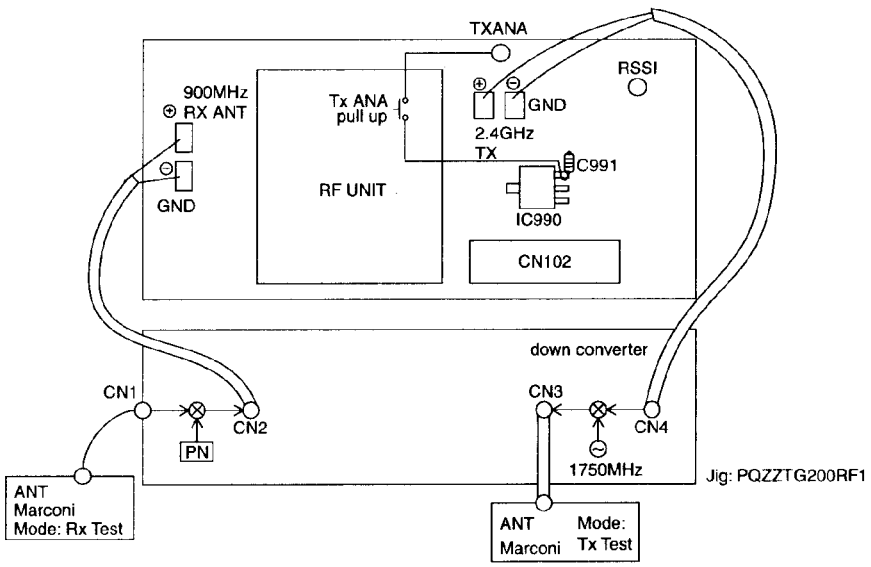
1. Connect audio cable positive lead to TP-AF (⑬pin of CN600), negative lead to TP-GND (㉓pin of CN600) and BNC end to AF INPUT on Marconi.
2. Set Marconi:
   (a) [Rx Test]: Select Rx Test
   (b) [RF Gen] [ON/OFF] : RF Output on
   (c) [FREQ.] : Input Rx Freq.= 904.560MHz (CH1)
   (d) [LEVEL] : Input RF Level = (-30dBm)+(Fig Loss from CN1 to CN2)
   (e) [Mod Gen] [ON/OFF] : FM on
   (f) [Freq.] : Input Audio Freq = 1.0kHz
   (g) [LEVEL] : Input FM dev Level = 24kHz
   (h) [AF Filter] [0.3 to 3.4k] : Select AF Filter
3. Press **SINAD** button until the display shows the SINAD value and press **dB** button.
4. Press "Amplitude" of Marconi. Lower the value of Amplitude so that **SINAD** is 12 dB.
5. When pin ⑬of CN600 (AF Out) is touched, confirm that Amplitude value of Marconi is less than {(-105 dBm)+Jig Loss from CN1 to CN2)}. When this value is NG, replace RF unit.

Squelch Check:

1. Keep same RX TEST settings as in **Receiving Sensitivity Check**.
2. Connect scope (X1) positive lead to TP-SQL ⑮pin of CN600 on RF UNIT, negative lead to TP-GND㉓pin of CN600 and BNC end to scope. Set scope to following condition.
   (a) TIME/DIV = **1 msec.**
   (b) VOLT/DIV = **1 V**
3. Set **RF GEN LEVEL** to [**-95dBm** +(Jig Loss CN1 → CN2) (+8 dBμ Vemf)]. Check scope voltage is **LOW**.
4. Set **RF GEN LEVEL** to [**-120dBm** +(Jig Loss CN1 → CN2) (-7 dBμ Vemf)]. Check the scope voltage is **HIGH**.
5. When the scope does not show above condition, press "[RF Gen] and [LEVEL]" of Marconi and lower the value of Amplitude so that **SINAD** is 12 dB.
   When TP - SQL is touched, adjust **VR801** until scope voltage toggles between **LOW & HIGH**. When VR801 cannot be adjusted at this value, replace RF unit.

RSSI (Receiving Signal Strength Indicator) DC Voltage Check:

1. Set Marconi as same conditions of Receiving Sensitivity Check.
2. Connect positive lead of DC voltmeter to TP-RSSI and negative lead to TP-GND.
3. Confirm that RSSI value is +2.3 V±0.03 V.
4. When RSSI value is not +2.3 V±0.03 V, adjust the value at VR800. When RSSI cannot be adjusted at this value, replace RF unit.



ADJUSTMENT (Base Unit)

BASE UNIT PREPARATION

Please prepare the BASE UNIT before performing any adjustment procedures. Refer to the BASE UNIT REFERENCE DRAWING for connection and test point locations.

1. Unscrew all 4 screws from bottom of cabinet. Remove cabinet bottom.
2. Unsolder antenna wire at RF module, and remove an antenna.
3. Solder a test mode switch as shown on the BASE UNIT REFERENCE DRAWING.
4. Solder one isolation capacitor's positive lead to the main P.C.Board **TPT** point and the other isolation capacitor's positive lead to the main P.C.Board **TPR** point.
5. Connect the Audio Cable, positive lead to the **TIP** isolation capacitor's free lead, the negative lead to the **RING** isolation capacitor's free lead. Do not connect the BNC end of the cable.
6. Connect the Telephone Analyzer **PHONE TEST JACK #1** to the BASE UNIT P.C.Board phone jack.
7. Connect the corded telephone to the Telephone Analyzer **PHONE TEST JACK #2.**
8. Remove main P.C.Board from cabinet top and place beside cabinet.
9. Solder High Frequency Cable open end to ANT and RF GND as specified in BASE UNIT REFERENCE DRAWING (P21, P25).

SYMPTOM/REMEDY TABLE

If you have one of the listed symptoms, please refer to this table and make the appropriate adjustments.

SYMPTOM	REMEDY
Transmission sound to HANDSET receiver is unstable	Adjust Items (A) and (C).
Does not link with HANDSET	Adjust Items (C) and (D).

BASE UNIT ADJUSTMENT PREPARATION

Please perform the following steps to prepare the BASE UNIT for the Adjustment procedure.

1. Set up all equipment as specified in following Item's Equipment Section.
2. In pressing "Test" switch, connect AC Adaptor to DC Jack of BASE UNIT main P.C.Board.
3. Press **LOCATOR / INTERCOM** button once. Next press "ANSWER" button, and "LOCATOR / INTERCOM" button every once.
   BASE UNIT P.C.Board should be in TEST MODE (CH1 TALK). Connect Marconi, and confirm frequency for CH1. If unit is not in TEST MODE, remove power from P.C.Board and repeat from step2.
4. The output power switches ON/OFF at every time you press "STOP" key. (Factory default setting is OFF).
5. SS mode switches ON/OFF at every time you press "GREETING" key. (Factory default setting is ON).
6. Pull up wire close TP-TXANA.

ADJUSTMENT PROCEDURE

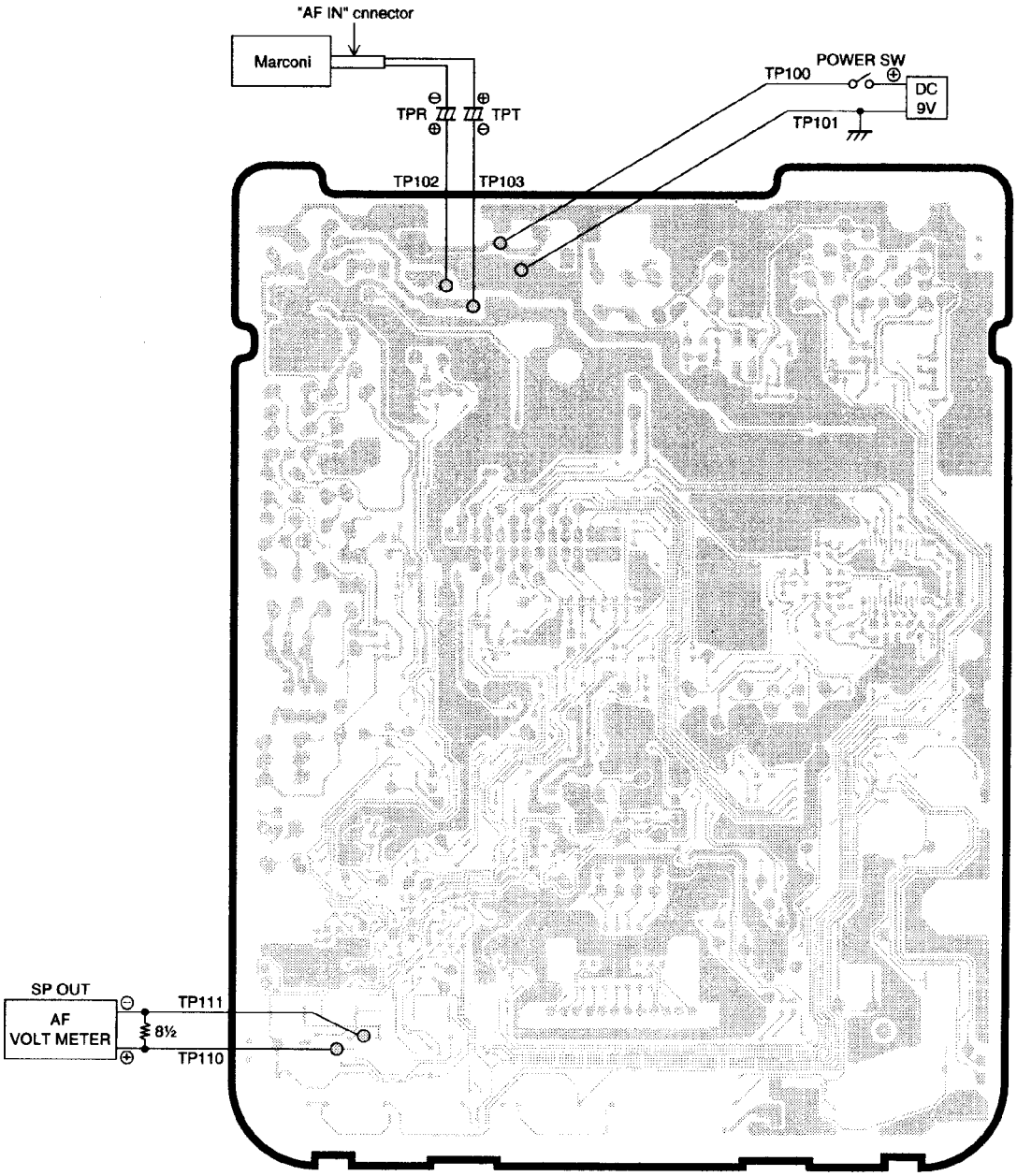
ADJUSTMENT ITEM DESCRIPTION	EQUIPMENT	PROCEDURE
(A) Standard Frequency (Tx Test)	**Marconi** Set Marconi Tx Test Tx Freq. : Input 656.160MHz **Output power of base unit: "ON" (Follow the procedure (4).)** **SS mode of base unit: "OFF" (Follow the procedure (5).)** TP Tx-ANA pull up. High Frequency Cable to right RF connector. **Telephone Analyzer** **Corded Phone** Take phone off hook	**Marconi** Check MARKER equals **656.160 MHz ± 0.003 MHz** (offset ≦ ±3kHz). When value is overed **656.160 MHz ± 0.003 MHz** (offset ≦ ±3kHz), Adjust VC790 of RF unit.

ADJUSTMENT ITEM DESCRIPTION	EQUIPMENT	PROCEDURE
(B) Voice signal Output (Rx Test)	**Marconi** **☐ indicates the button of Marconi** ☐Rx Test☐ : Select Rx Test Mode ☐RF Gen☐,☐ON/OFF☐ : RF Output on ☐FREQ.☐ : 904.560MHz ☐LEVEL☐ : -30dBm + (Jig Loss CN1 → CN2) ☐Mod Gen☐ ☐ON/OFF☐ : FM on ☐FREQ.☐ : 1.0kHz ☐LEVEL☐ : 24kHz ☐AF Filter☐,☐0.3 to 3.4kHz☐ : Select AF Filter **SS Mode of base unit: ON** (Follow the procedure (5).) High Frequency Cable to left RF connector. Audio Cable positive lead to **TPT** isolation capacitor, negative lead to **TPR** isolation capacitor. (If not using B&K1050) **Telephone Analyzer** **Corded Telephone** Take phone off hook	Adjust **VR402** on Main PCB until **AF VOLTS** equals **-3dBm ± 2dBm.**
(C) RX Input (Line Modulation) (Tx Test)	**Marconi** **☐ indicates the button of Marconi** ☐Tx Test☐ : Mode Select ☐Tx Freq.☐ : Input 656.160MHz = 2406.160MHz - 1750MHz ☐Audio Gen☐ ☐Gen1/Gen2☐ : Select Gen1 (AF1) ☐ON/OFF☐ : AF Gen1 "ON" ☐FREQ.☐ : Input "1.0kHz" ☐LEVEL☐ : Input "-29.0dBm" ☐Mod Meter☐☐IF Filter☐☐300kHz☐☐Return☐ ☐AF Filter☐☐0.3 to 3.4kHz☐ **(Input between TPT-TPR)** High Frequency Cable to right RF connector.**SS mode of base unit: "OFF"** (Follow the procedure (6).) **Output power of base unit: "ON"** (Follow the procedure (4).) TP Tx-ANA pull up. **Telephone Analyzer Corded Phone** Take phone off hook **KX-TG2570B**	Adjust **VR401** on Main PCB until **MOD LEVEL** equals **24 kHz ± 0.5 kHz** Notes You need to place the HANDSET in TEST mode to drow spurious RF signals that is being received at the BASE UNIT. By shorting the MIC leads insures that you are sending an unmodulated RF signal. You need the corded phone off hook to keep the telephone analyzer from sending a dial tone to the unit under test. The dial tone adds to the MOD LEVEL value greatly.

ADJUSTMENT ITEM DESCRIPTION	EQUIPMENT	PROCEDURE
(D) Squelch (RX sensitivity confirmation and squelch adjustment) (Rx Test)	**Marconi** **☐ indicates the button of Marconi** [Rx Test] : Select Rx Test Mode [RF Gen],[ON/OFF] : RF Output on [FREQ.] : 904.560MHz [LEVEL] : -30dBm + (Jig Loss CN1 → CN2) [Mod Gen] [ON/OFF] : FM on [FREQ.] : 1.0kHz [LEVEL] : 24kHz [AF Filter],[0.3 to 3.4kHz] : Select AF Filter **SS Mode of base unit: ON** (Follow the procedure (5).) One end of BNC cable to left RF connector, other end to Attenuator Input. Audio Cable positive lead to **TPT** isolation capacitor, negative lead to **TPR** isolation capacitor, BNC end to AF INPUT connector. **Oscilloscope** SETUP X1 probe connected to INPUT 1. Probe ground connected to **GND**. TIME/DIV 1ms VOLT/DIV 1V Auto trigger **Telephone Analyzer** **Corded Phone** Take off hook	On Marconi, press "Rx Test" and "SINAD" until the display shows the SINAD value and press **dB**. Then press "Rx Test", "RF Gen" and "Level" on Marconi. Lower Amplitude at SINAD 12 dB and confirm that RF GEN LEVEL is less than **[-105dBm + jig-loss CN1 → CN2]**. Attach the oscilloscope probe to TP SQL. When Amplitude is set at .-95dBm+(Jig Loss CN1 → CN2), confirm that the signal of TP-SQL is Low. After that, set Amplitude -120dBm+(Jig Loss CN1 → CN2), and confirm that the signal of TP-SQL is High. When level is NG, adjust again following Squelch Check. (Refer to page 12.)
(E) RSSI Level Adjustment (Rx Test)	**Marconi** **☐ indicates the button of Marconi** [Rx Test] : Select Rx Test Mode [RF Gen],[ON/OFF] : RF Output on [FREQ.] : 904.560MHz [LEVEL] : -30dBm + (Jig Loss CN1 → CN2) [Mod Gen] [ON/OFF] : FM on [FREQ.] : 1.0kHz [LEVEL] : 24kHz [AF Filter],[0.3 to 3.4kHz] : Select AF Filter **SS Mode of base unit: ON** (Follow the procedure (5).)	Adjust VR800 so that the Voltage of TP RSSI becomes 2.3V ± 0.03V. (Refer to page 12.)

Once aligned, please reassemble the base unit. Also take off the back of the HANDSET and unsolder the MIC lead short wire if you previously installed it.

BASE UNIT REFERENCE DRAWING



HOW TO CHECK THE RF SECTION (Handset)

1) Warm up the Marconi Radio Tester, for at least 30 minutes to allow internal crystal oscillation to become stable.
2) Refer to figures below for handset wire connections.
3) Disconnect the handset antenna from the PCB. If you allow the antenna to remain and be a load, the readings will be wrong.
4) Supply DC 3.9V Handset PCB using a DC power supply.
5) Press **TALK**, then press "**5**", "**8**" and "**0**" simultaneously.
6) Press **INTERCOM**.
7) Press "#" key. (set SS-RESTART Mode)
8) Press "TALK" (initials channel CH1)

Carrier Frequency Check:

Set Marconi (□ indicates the button of Marconi)
- [Tx Test] : Select Tx Test Mode
- [Tx Freq.] : Input Carrier Freq.=904.560MHz (CH1)

1. 1) Press "8" key once to set "High" Power Mode.
   2) Press "0" key once to set "SS" Mode OFF.
2. Check TX Frequency = **904.560 MHz ± 3kHz (offset ≦ ±3kHz).**
3. When value if over, adjust **VC490**.

Transmit Power Check:

Set Marconi (□ indicates the button of Marconi)
- [Tx Test] : In Select Tx Test Mode
- [Tx Freq.] : Input Carrier Freq.=904.560MHz (CH1)
- [TX Power] : Select TX Power
- [Broad/Narrow] : Select "Broad Band" Mode

1. 1) Press "8" key once to set "High" Power Mode.
   2) Press "0" key once to set "SS" Mode ON.
2. Check TX Power reading. It should equal **+12 dBm ± 4 dB** (+8 dBm ~ +16 dBm).

Receiving Sensitivity Check:

1. Connect audio cable BNC side to AF INPUT in Marconi and other side to TP-SP+ and TP-GND.
2. Set Marconi (□ indicates the button of Marconi.) Enter the following setting:
   - [Rx Test] : Select Rx Test Mode
   - [RF Gen] [ON/OFF] : RF Output on
   - [FREQ.] : Input 656.160MHz = (Handset Rx Frequency) - (1750MHz) = 2406.160MHz - 1750MHz
   - [LEVEL] : Input RF Level = [(-30dBm) + (Jig Loss CN1 → CN2 → CN3 → CN4)]
   - [Mod Gen], [ON/OFF] : FM on
   - [FREQ.] : Input AF Freq. = 1.0kHz
   - [Level] : Input FM Level = 24kHz
   - [AF Filter], [0.3 to 3.4k] : Select AF Filter
3. Press the **SINAD** button on Marconi until the display shows SINAD value.
   Press the **dB** button.
4. Press the "RF Gen", and "Level" button of Marconi.
5. Using the **VARIABLE** knob on Marconi decrease RF GEN LEVEL value until **SINAD** value is **12 dB**.
6. Check the **Amplitude**. This should be **less than [-100dBm** + (Jig Loss CN1 → CN2 → CN3 → CN4).]

Squelch Check:

1. Connect scope probe (X1) lead to TP-SQL, negative to GND and BNC end to scope.
2. Set scope to the following condition: TIME/DIV = 1 msec, VOLT/DIV = 1 V
3. Set **RF GEN LEVEL** to **[-95 dBm** + (Jig Loss CN1 → CN2 → CN3 → CN4).] Check scope voltage is **LOW**.
4. Set **RF GEN LEVEL** to **[-120 dBm** + (Jig Loss CN1 → CN2 → CN3 → CN4).] Check scope voltage is **HIGH**.
5. When scope does not show above condition at item 5 of Receiving Sensitivity Check, adjust **VR501** until scope voltage toggles between **LOW** & **HIGH**.

ADJUSTMENT (Handset)

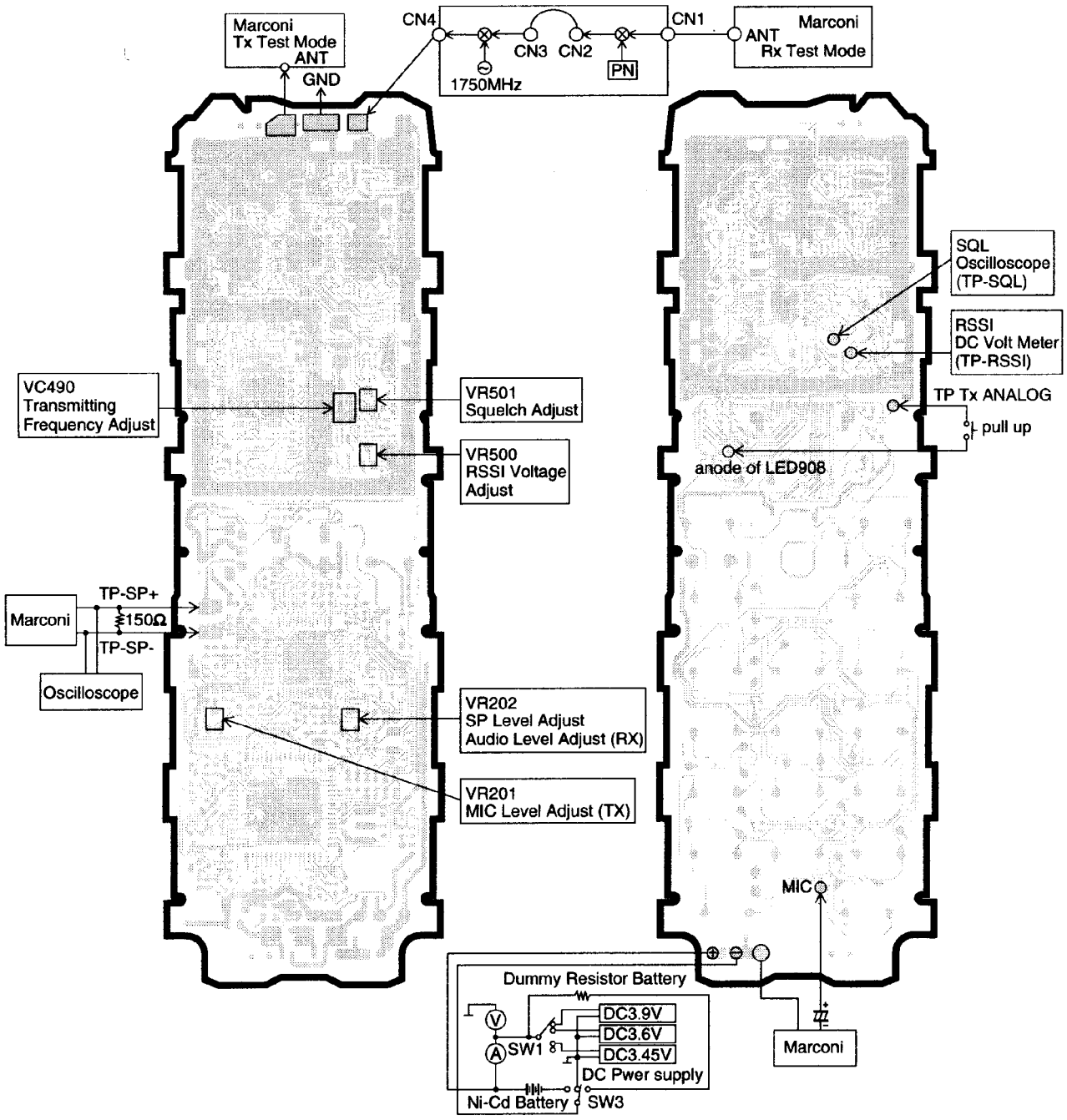
HANDSET PREPARATION

Please perform the following steps to prepare the HANDSET for alignment. Please refer to the HANDSET REFERENCE DRAWING for connection and test point locations.

1. Remove battery cover with jig, and remove battery.
2. Unscrew both screws at the case bottom.
3. Remove the back of the case with jig and unsolder the 2 antenna leads.

4. Unscrew the antenna mounting screw, and pull out the antenna.
5. Unscrew all 7 P.C.Board mounting screws.
6. Unsolder both speaker connections on P.C.Board.
7. Remove the HANDSET P.C.Board.
8. Remove the keypad membrane.
9. Solder High Frequency Cable open end to ANT and RF GND points.
10. Using the Digital Multimeter, measure DC VOLTS output on the Telephone Analyzer. Adjust the output voltage to 3.9V DC.
11. Solder battery connection wires at the points shown in the HANDSET REFERENCE DRAWING. Solder the positive lead to TP-V_{DD}, towards the component side of the P.C.Board. Solder the negative lead to the TP-Vss. **DO NOT APPLY POWER TO THE HANDSET AT THIS TIME!!!!!!**
12. Solder a small, insulated piece of wire to **GND** as well.
13. Solder 1 isolation capacitor's positive lead to **SP+** test point.
14. Solder a small, short, insulated wire to **MIC** test point.
15. Lay the keypad membrane over the keypad switch contacts.

HANDSET REFERENCE DRAWING



SYMPTOM/REMEDY TABLE

If you have one of the listed symptoms, please refer to this table and make the appropriate adjustments.

SYMPTOM	REMEDY
Does not link with BASE UNIT	Adjust Item (B), (C) and (E).
Speaker level is unstable	Adjust Items (A).
Tx sound is unstable	Adjust Item (D).

HANDSET ADJUSTMENT PREPARATION

Please perform the following procedure before starting the Adjustment Procedure. You only have to perform this procedure only once to complete all Items, but you will have to perform this procedure to make an individual Adjustment Item.

1. You will need all equipment listed in the Item's EQUIPMENT section.
2. Setup all equipment as specified in following item's Equipment section.
3. Apply power to the HANDSET, and press TALK key when the base unit is not to be powered on.
4. Press 5, 8 and 0 keys at the same time, until you hear a beep.
5. Release the 3 keys. If you hear 3 beeps, remove the power from the HANDSET and repeat the last 2 steps.
6. Press the **INTERCOM** key and "#" key, then press the **TALK** key. HANDSET should now be in TEST MODE (CH 1 TALK). The LCD indicate "TALK". If the HANDSET is not in TEST MODE, remove the power and repeat the last 3 steps.
7. The output power switches "Low", "High" at every pressing "8". (Initial setting: "Low") (Pressing "8" once: "High")
8. "SS mode" switches ON/OFF at every pressing "0". (Initial Setting: ON)
9. Press "0" key twice when the "SS" is not synchronized during reception test.
10. Remove the keypad membrane and lay it aside.

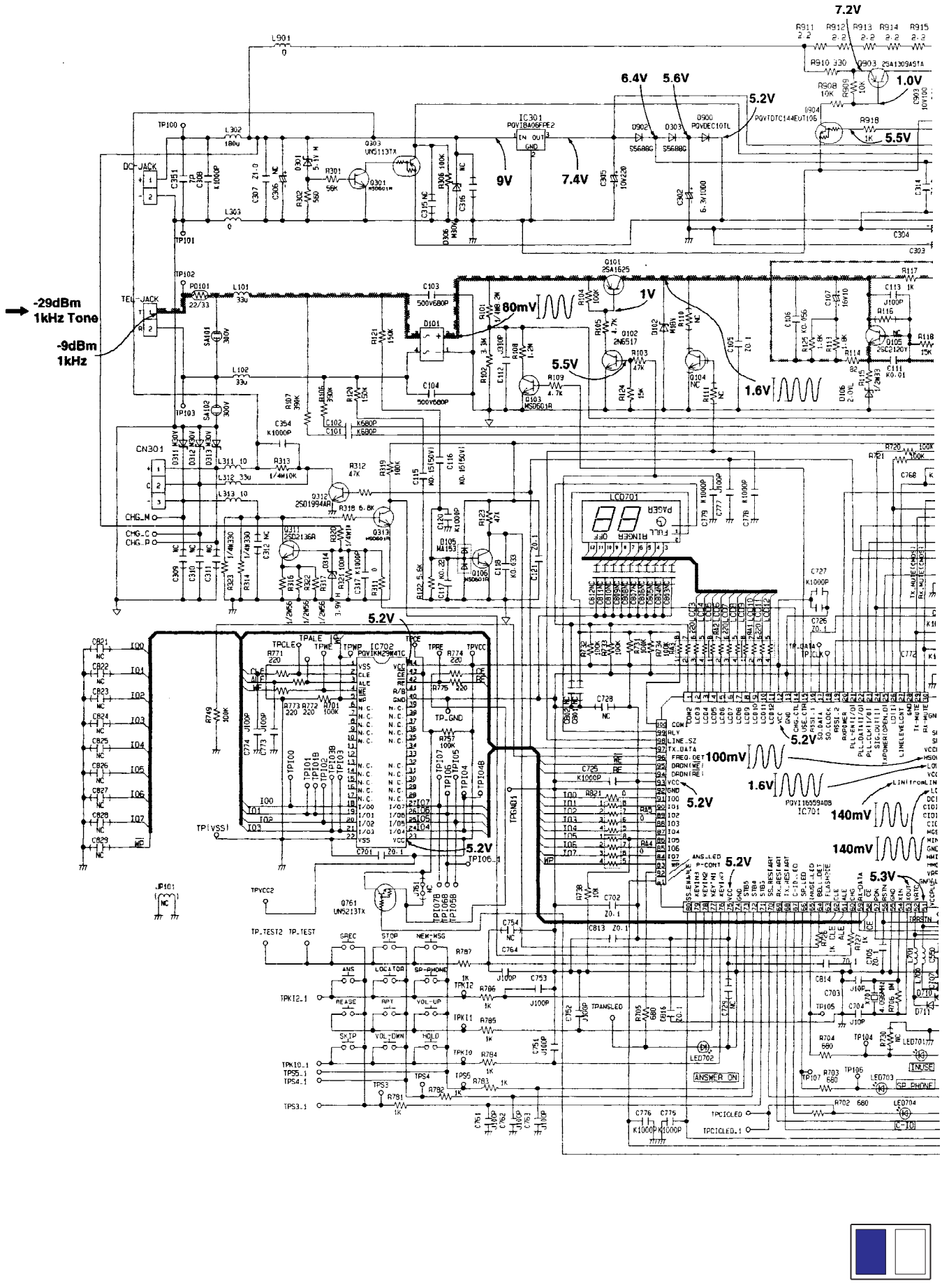
ADJUSTMENT PROCEDURE

ADJUSTMENT ITEM DESCRIPTION	EQUIPMENT	PROCEDURE
(A) Standard Frequency (Tx Test)	**Marconi** Tx Test : Select Tx Test Mode Tx Freq. : Input 904.560MHz **SS Mode of handset: OFF** (Follow the procedure (8).) **Output power of handset: "High"** (Follow the procedure (7).) TP Tx_ANALOG pull up. Connect High Frequency Cable to right RF connector.	Check Marconi **TX FREQ** equals **904.560 MHz ± 0.003 MHz** (offset ≦ ±3kHz). When value is overed **904.560 MHz ± 0.003 MHz** (offset ≦ ±3kHz), Adjust at VC490.
(B) SP Output (Rx Test)	**Marconi** Rx Test : Mode Select RF Gen ON/OFF : RF Output on FREQ. : Input Rx Frequency= 656.160MHz=2406.16MHz -1750MHz (CH1) LEVEL : Input RF Level=(-25dBm)+ (Jig Loss / CN1 → CN2 → CN3 → CN4) Mod Gen ON/OFF : FM on FREQ. : Input "1.0kHz" LEVEL : Input FM Level "24.0kHz dev." AF Filter, 0.3 to 3.4kHz : Select AF Filter **SS Mode of handset: ON** (Follow the above-mentioned procedure (8).) High Frequency Cable to left RF Connector. Audio Cable positive lead to isolation capacitor, negative lead to **GND**, BNC end to AF INPUT	Set handset volume to medium. Adjust **VR202** until **AF VOLTS** equals **-19dBm ± 1dBm** Note This voltage reading is with speaker or load attached to the HANDSET P.C.Board.

ADJUSTMENT ITEM DESCRIPTION	EQUIPMENT	PROCEDURE
(C) RSSI Level Adjustment (Rx Test)	**Marconi** [Rx Test] : Mode Select [RF Gen] [ON/OFF] : RF Output on [FREQ.] : Input Rx Frequency= 656.160MHz=2406.16MHz -1750MHz (CH1) [LEVEL] : Input RF Level=(-25dBm)+ (Jig Loss / CN1 → CN2 → CN3 → CN4) [Mod Gen] [ON/OFF] : FM on [FREQ.] : Input "1.0kHz" [LEVEL] : Input FM Level "24.0kHz dev." [AF Filter] [0.3 to 3.4kHz] : Select AF Filter **SS Mode of handset: ON** (Follow the above-mentioned procedure (8).)	Adjust VR301 to make the voltage of TP-RSSI **2.00V ± 0.03V**.
(D) Squelch (RX sensitivity confirmation and squelch adjustment) (Rx Test)	**Marconi** [Rx Test] : Mode Select [RF Gen] [ON/OFF] : RF Output on [FREQ.] : Input Rx Frequency= 656.160MHz=2406.16MHz -1750MHz (1ch) [LEVEL] : Input RF Level=(-25dBm)+ (Jig Loss / CN1 → CN2 → CN3 → CN4) [Mod Gen] [ON/OFF] : FM on [FREQ.] : Input "1.0kHz" [LEVEL] : Input FM Level "24.0kHz dev." [AF Filter] [0.3 to 3.4kHz] : Select AF Filter **SS Mode of handset: ON** (Follow the above-mentioned procedure (8).) Install 150Ω resistor (150Ω=SP load) or remove the SP wires. It can be remedied either one, but not both at the same time. **Oscilloscope** SETUP X1 probe connected to INPUT 1. Probe ground connected to **GND**. TIME/DIV 1ms VOLT/DIV 1V Auto trigger	On Marconi, press SINAD until the display shows the SINAD value and press **dB**. Then press "Rx Test", "RF Gen", and "Level" on Marconi. Lower Amplitude **LEVEL** at SINAD 12 dB and confirm that Amplitude is less than **-100 dBm+**(Jig Loss / CN1 → CN2 → CN3 → CN4). Attach the oscilloscope probe to TP-SQL. When Amplitude is set at -95 dBm +(Jig Loss / CN1 → CN2 → CN3 → CN4), confirm that the signal of TP-SQL is Low. After that, set Amplitude at -120 dBm +(Jig Loss / CN1 → CN2 → CN3 → CN4), and confirm that the signal of TP-SQL is High. When level is NG, adjust VR501 following Squelch Check item 5 of Base Unit RF (Refer to page 12).
(E) MIC Input (MIC Modulation) (Tx Test)	**Marconi** [Tx Test] : Tx Test Mode Select [Tx Freq] : 904.560MHz [Audio Gen] [Gen1/Gen2] : Select Gen1 (AF1) [ON/OFF] : AF Gen1 "ON" [FREQ.] : Input "1.0kHz" [LEVEL] : Input "-34dBm" [Mod Meter] [IF Filter] [300kHz] [Return] : Select IF Filter [AF Filter] [0.3 to 3.4kHz] : Select AF Filter **SS Mode of handset: OFF** (Follow above mentioned procedure (8).) Out put Power off handset:High (Follow the procedure (9).) TP Tx ANALOG pull up. The capacitor used must be greater than 1μF (c≧μF). Connect Audio Cable positive lead to **TX AF**, negative lead to **GND**, BNC end to AF GEN OUTPUT.	Adjust **VR201** until Marconi **MOD LEVEL** equals **28 kHzdev. ± 0.5 kHz**

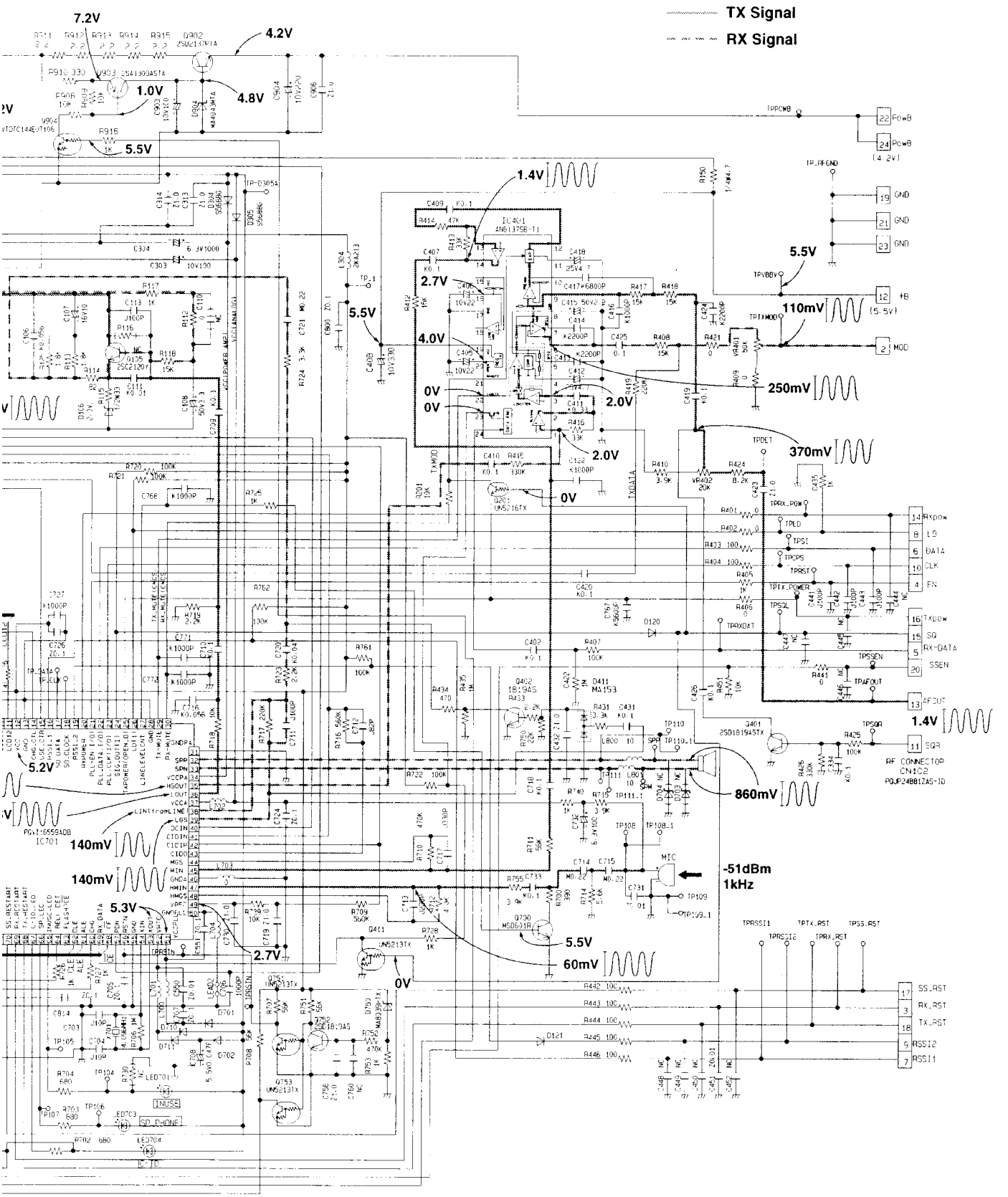
Once aligned, please perform the following procedure.

1. Disconnect all equipment and solder connections. Use solder wick to clean up any solder you added.
2. Install the keypad membrane on top of the HANDSET keys.
3. Install the HANDSET P.C.Board.
4. Solder speaker wires back onto the P.C.Board observing correct polarity.
5. If you will align Item (C) RX Input in BASE UNIT, then solder a short wire across the MIC leads. Remember to unsolder this wire after you completed the BASE UNIT alignment.
6. Insert antenna into the case.
7. Install antenna and P.C.Board mounting screws and solder and connector antenna connection.
8. Install case back and bottom mounting screws.
9. DO NOT INSTALL THE BATTERY AT THIS TIME!!!!!!

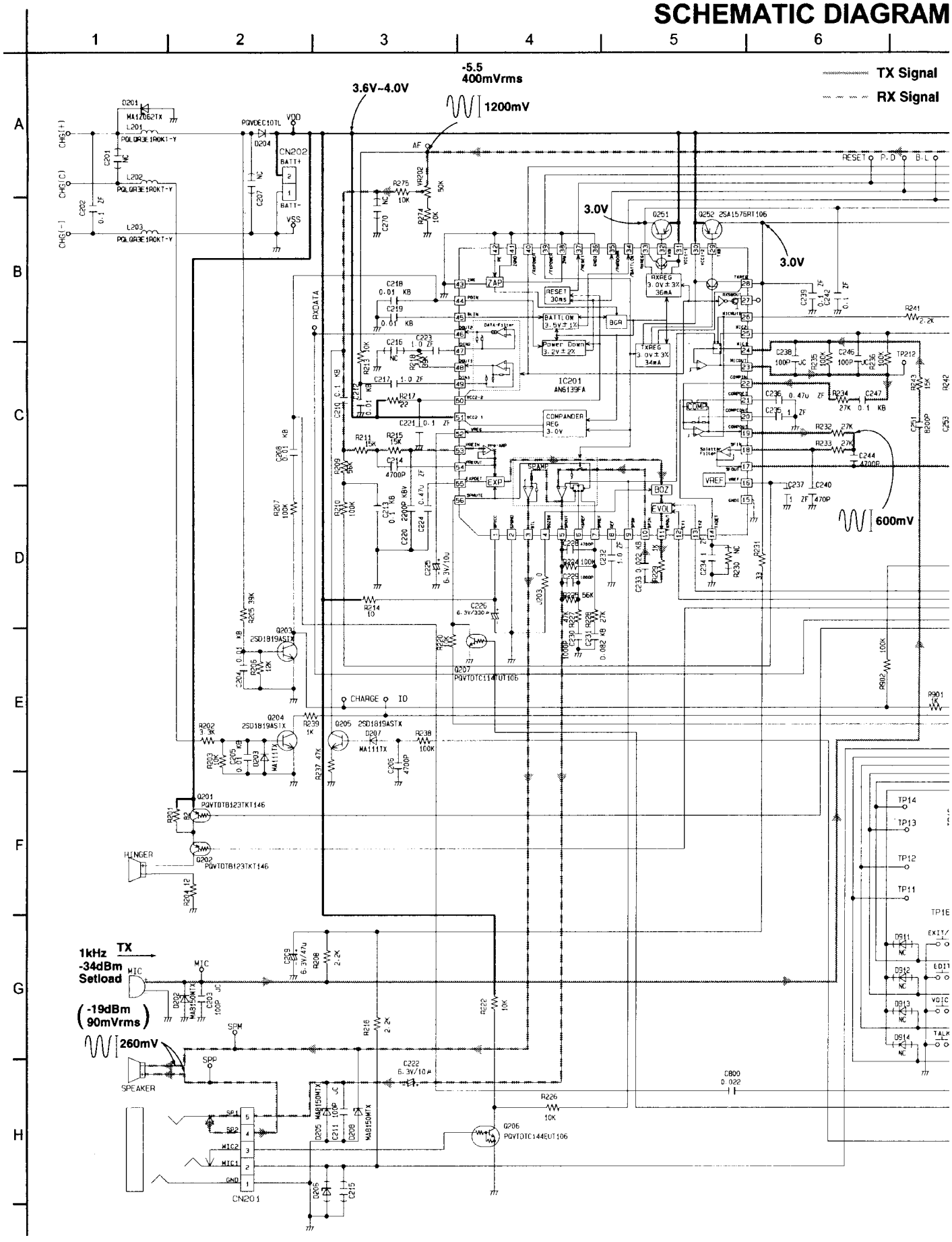

1
2
3
4
5
6
A
B
C
D
E
F
G
H
7.2V
6.4V
5.6V
5.2V
1.0V
5.5V
9V
7.4V
-29dBm
1kHz Tone
-9dBm
1kHz
60mV
1V
1.6V
100mV
140mV
5.3V
DC_JACK
TEL_JACK
CN301
LCD701
IC702
IC701
TP_GND
ANSWER ON
SP_PHONE
TPCICLED
TPCICLED_1

ATIC DIAGRAM (Base Unit)

6 | 7 | 8 | 9 | 10 | 11 | 12



SCHEMATIC DIAGRAM

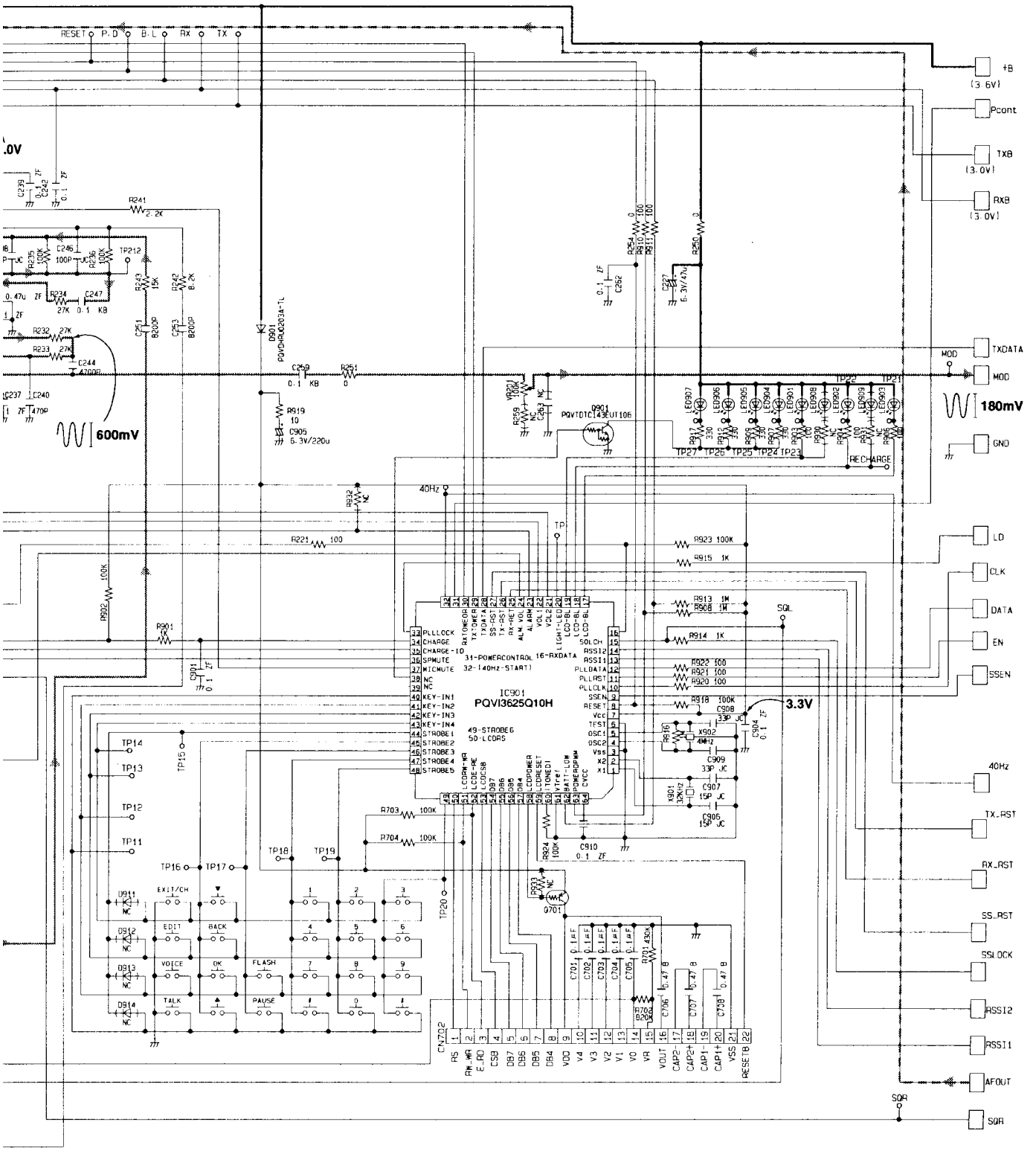


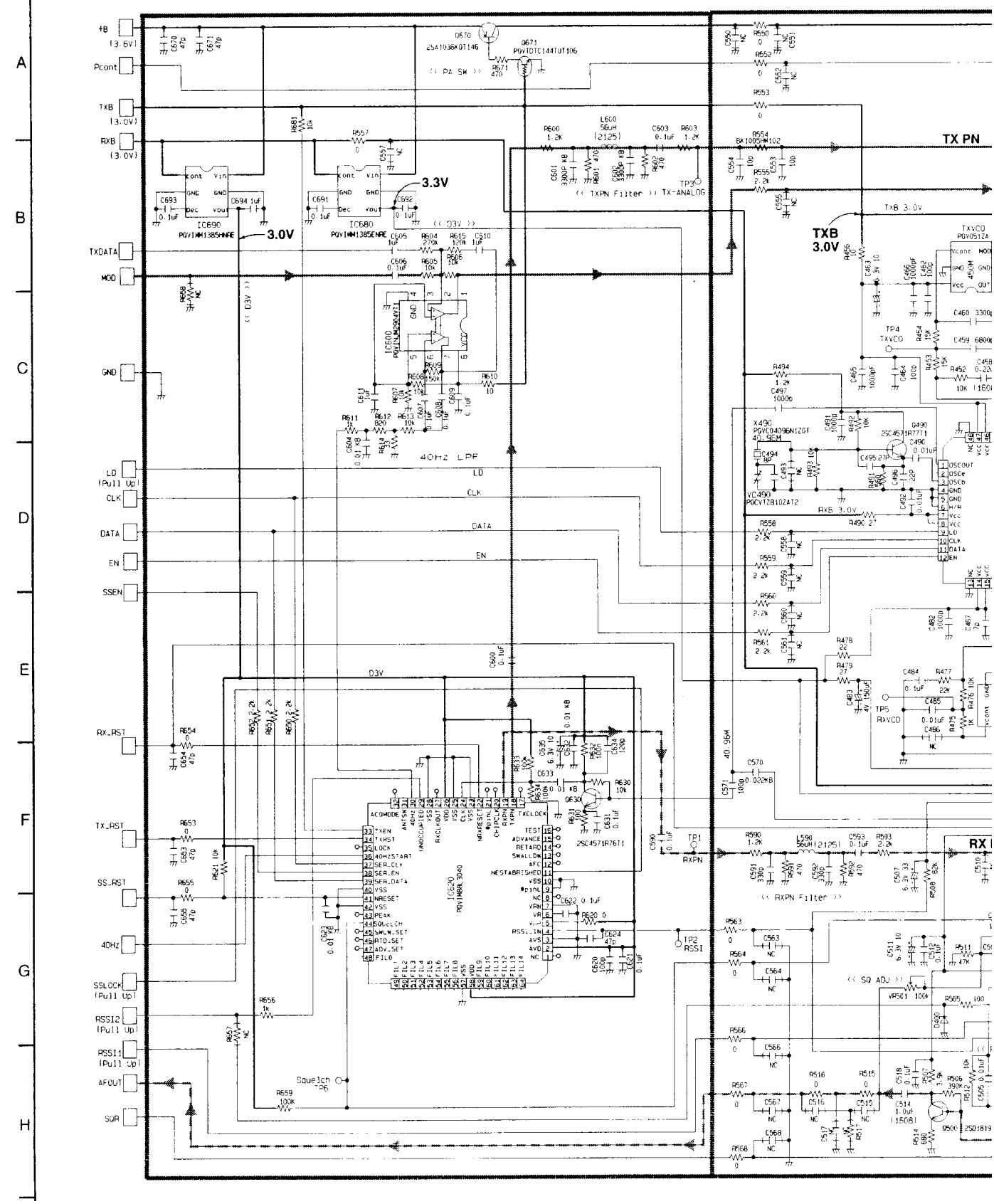
IC DIAGRAM (Handset-Main)

6 | 7 | 8 | 9 | 10 | 11 | 12

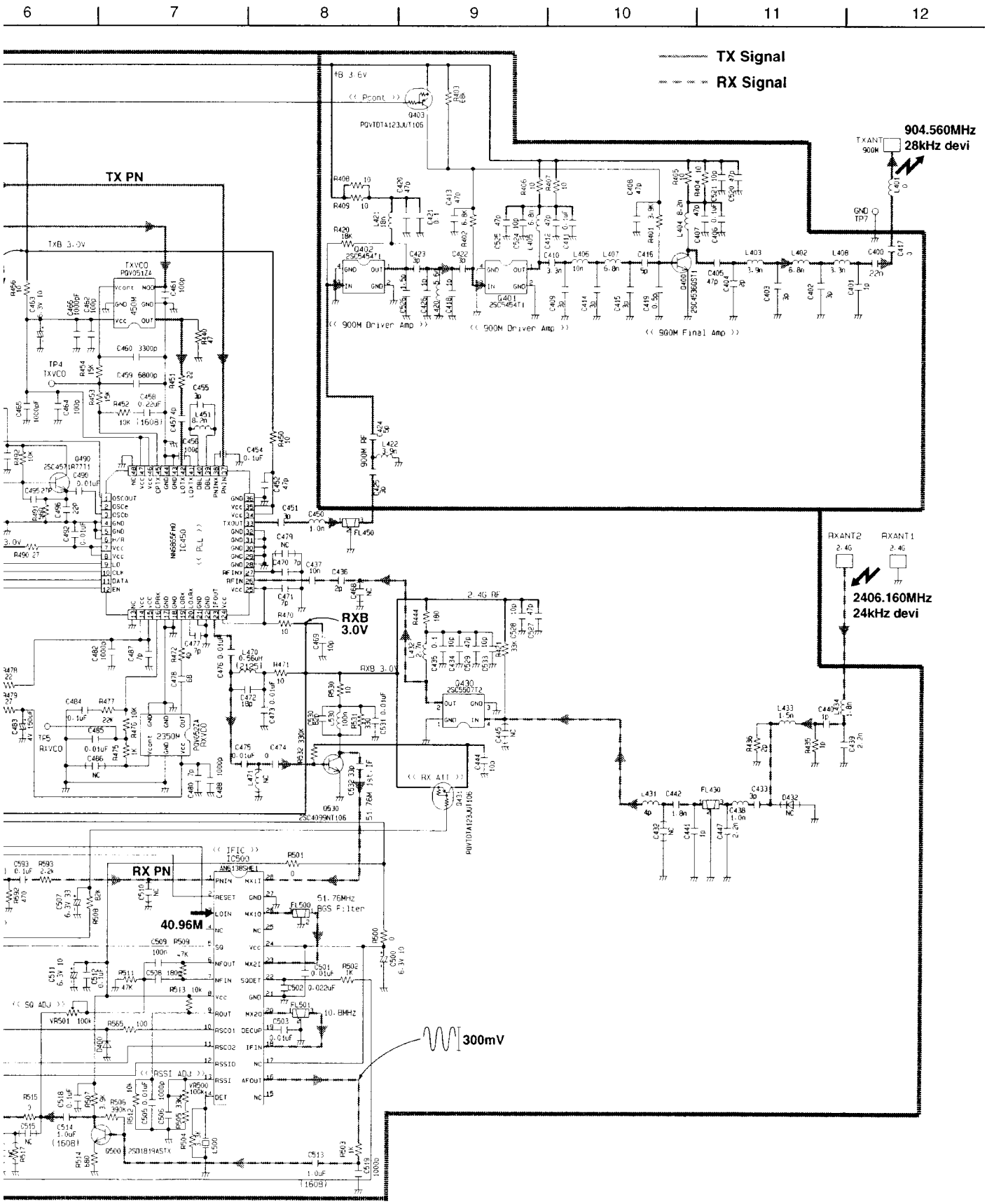
TX Signal

RX Signal



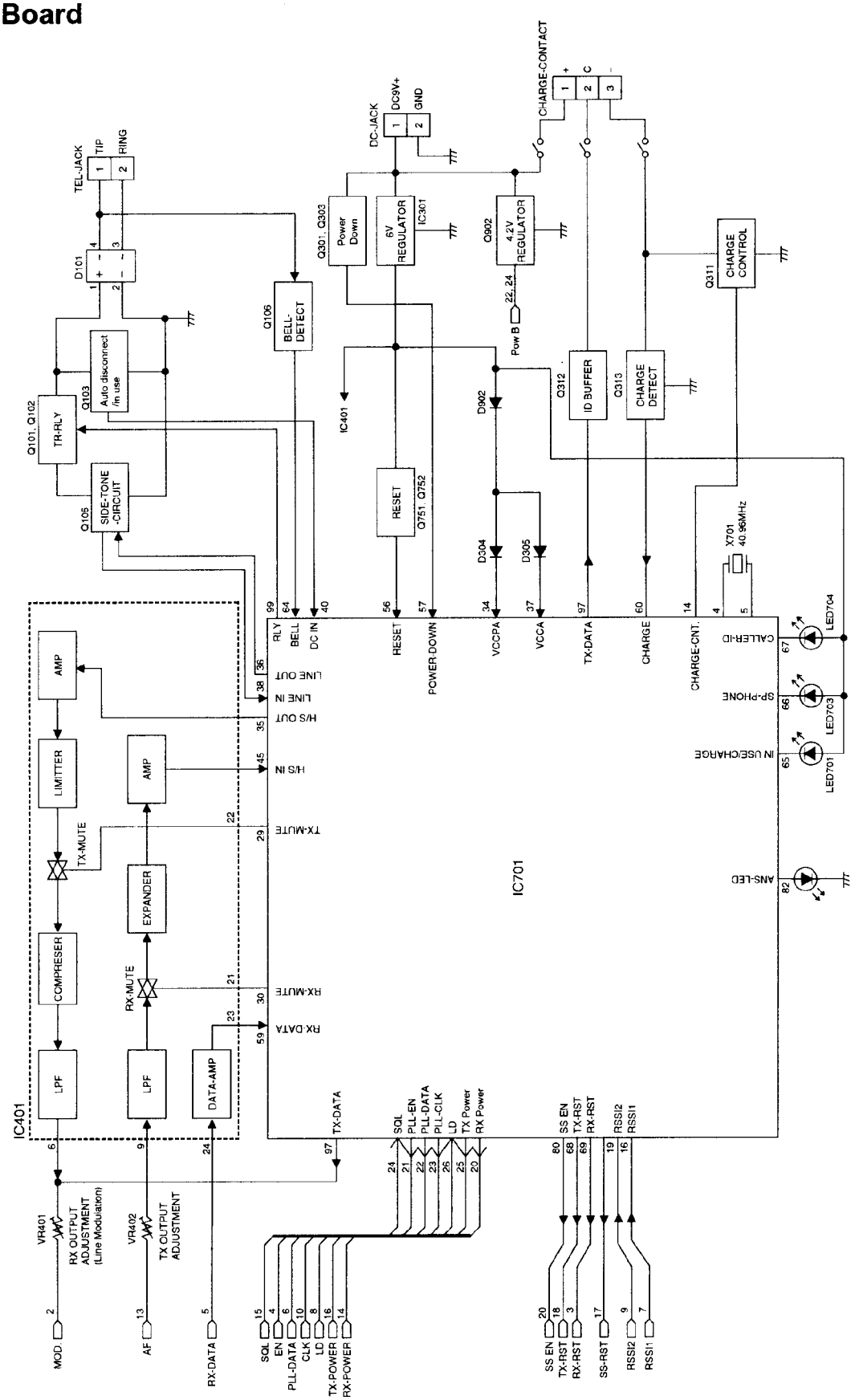

1
2
3
4
5
6
A
B
C
D
E
F
G
H
+B (3.6V)
Pcont
TXB (3.0V)
RXB (3.0V)
TXDATA
MOD
GND
LD (Pull Up)
CLK
DATA
EN
SSEN
RX_RST
TX_RST
SS_RST
40Hz
SSLOCK (Pull Up)
RSSI2 (Pull Up)
RSSI1 (Pull Up)
AFOUT
SQR
3.3V
3.0V
TXB 3.0V
TX PN
RX
40Hz LPF
Squelch
TXVCO
RXVCO
TP1 RXPN
TP2 RSSI
TP3 TX-ANALOG
TP4 TXVCO
TP5 RXVCO
((PA SW))
((TXPN Filter))
((RXPN Filter))
((SQ ADJ))
((03V))
IC690 PQV1XM1385HNRE
IC680 PQV1XM1385ENRE
IC600 PQV1XM2924V1
IC630 PQV1H80A3040
X490 PQVC04096N1ZGT 40.96M
VC490 PQCVTZ810ZAT2
Q670 2SA1036K0T146
Q671 PQV1DTC144TUT106
Q630 2SC4571R76T1
Q490 2SC4571R77T1

TIC DIAGRAM (Handset-RF)



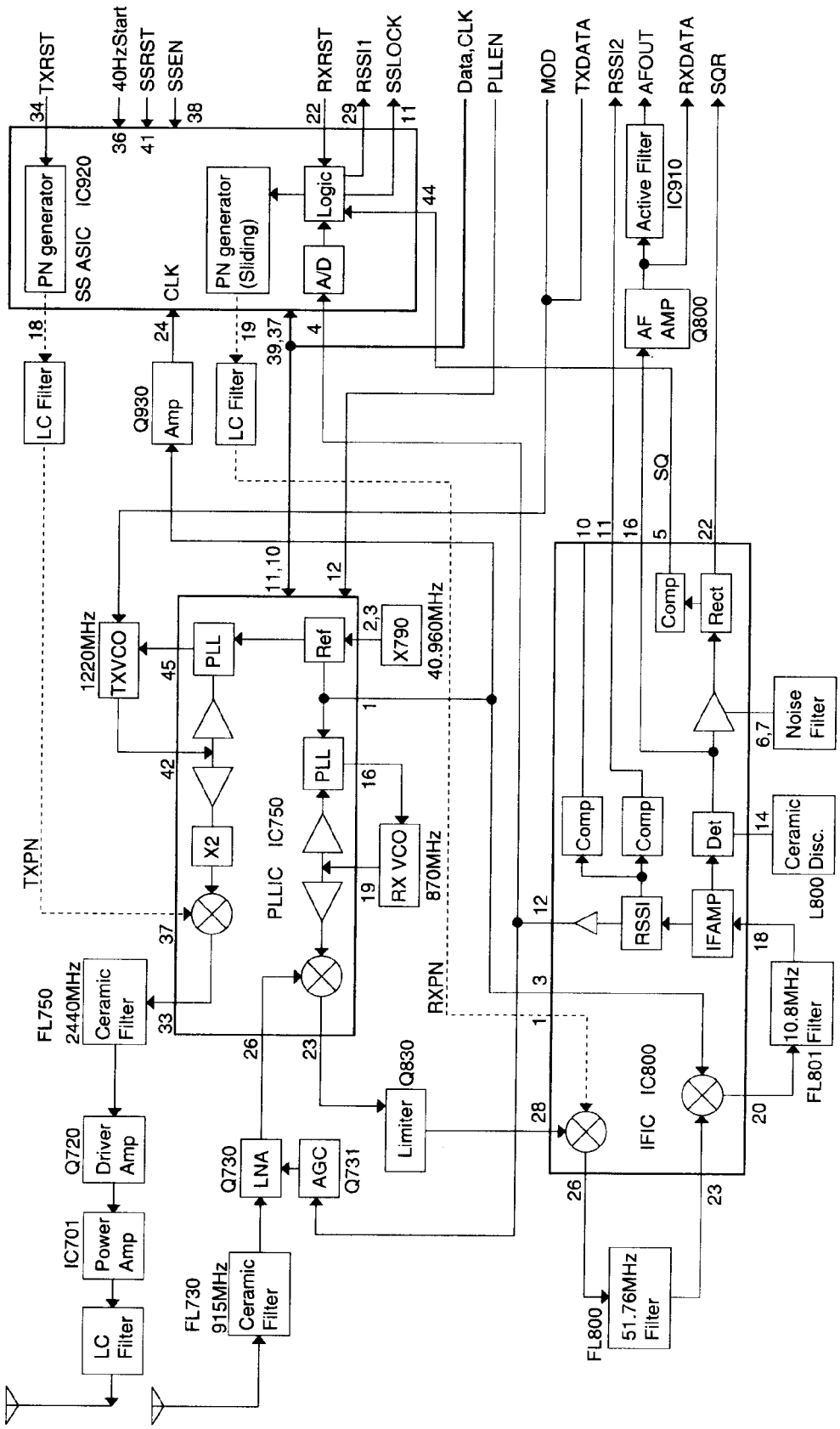
BLOCK DIAGRAM (Base Unit)

Main P.C.Board

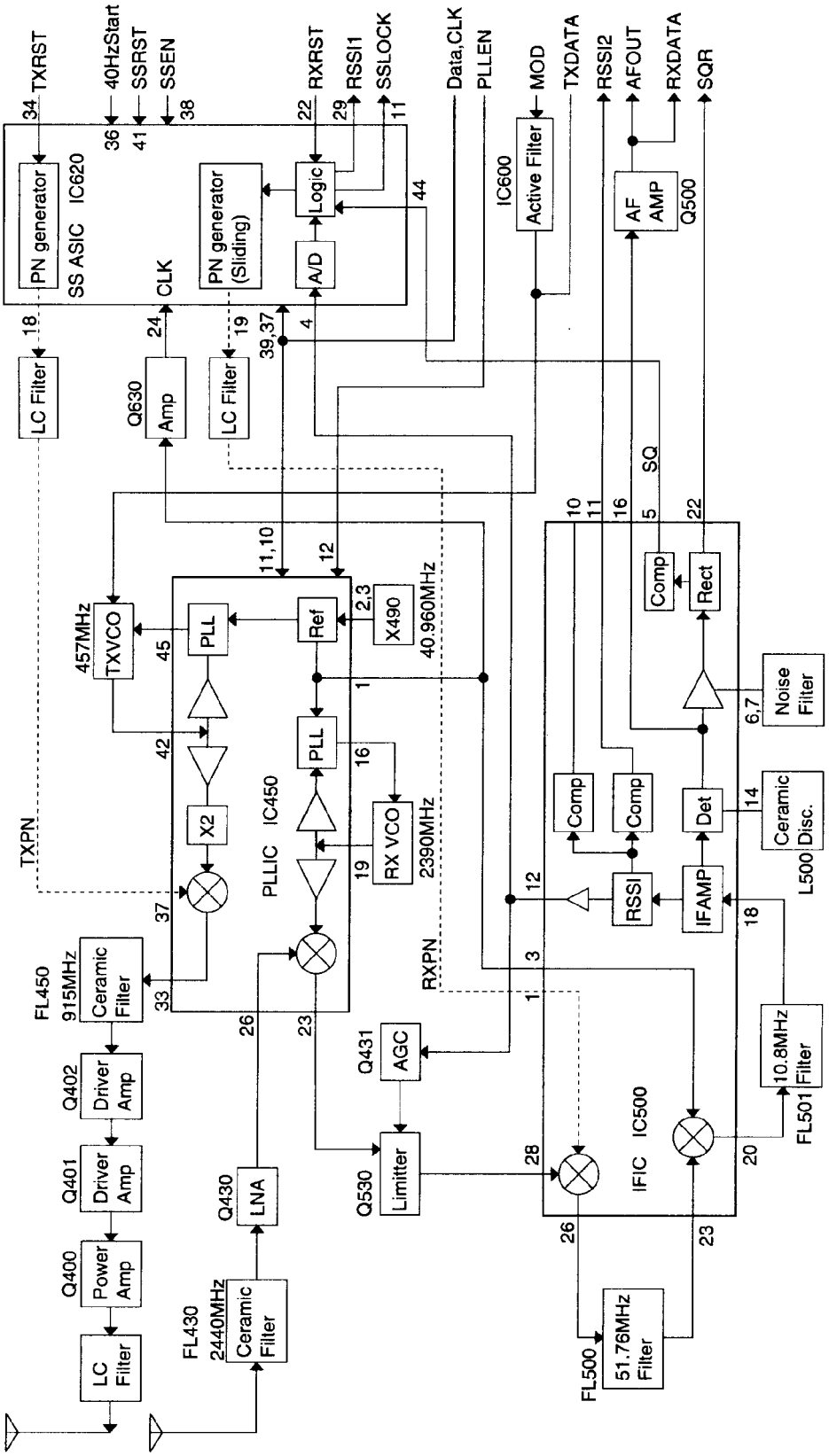


BLOCK DIAGRAM (Base Unit-RF)

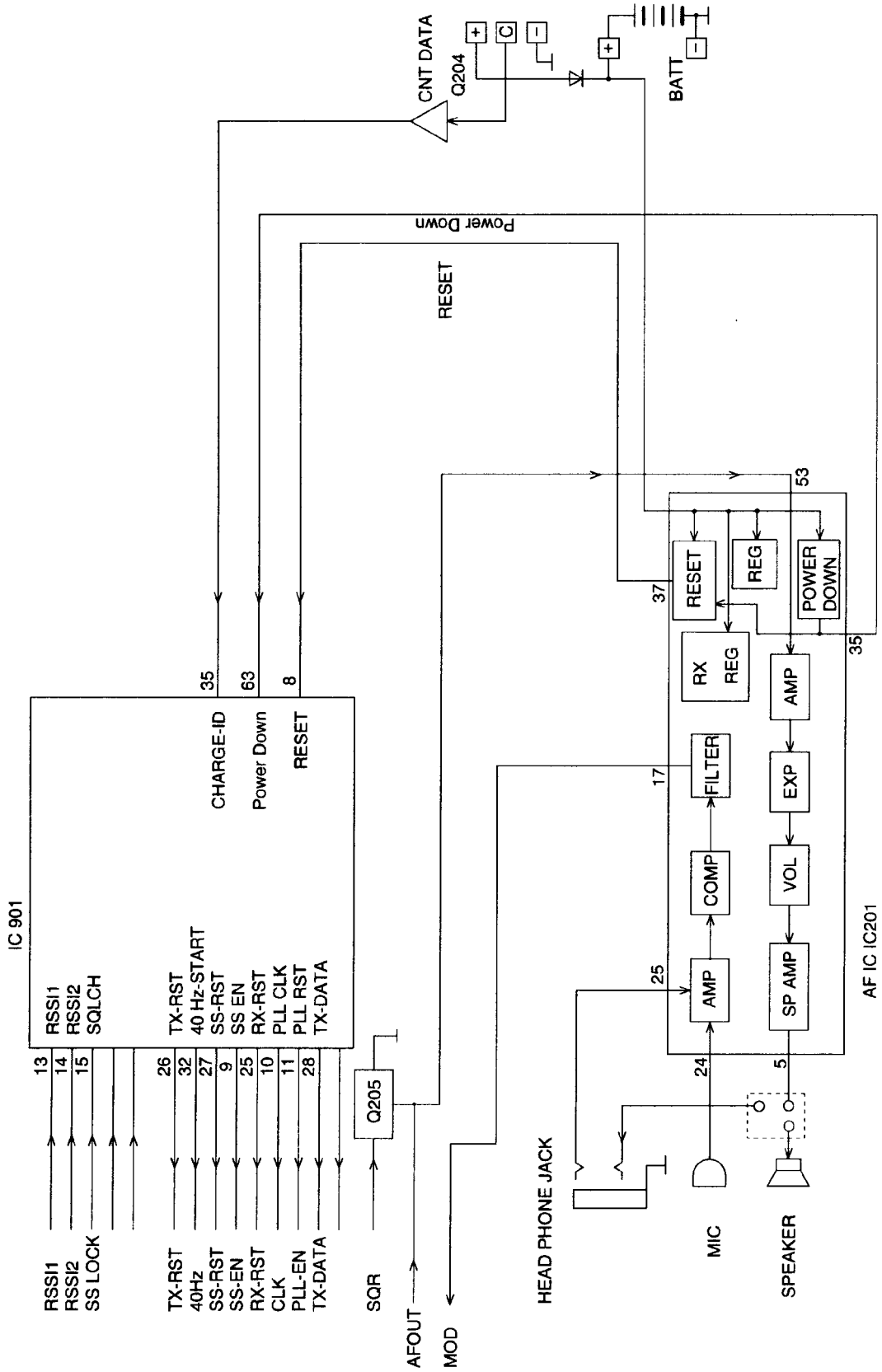
RF-Unit



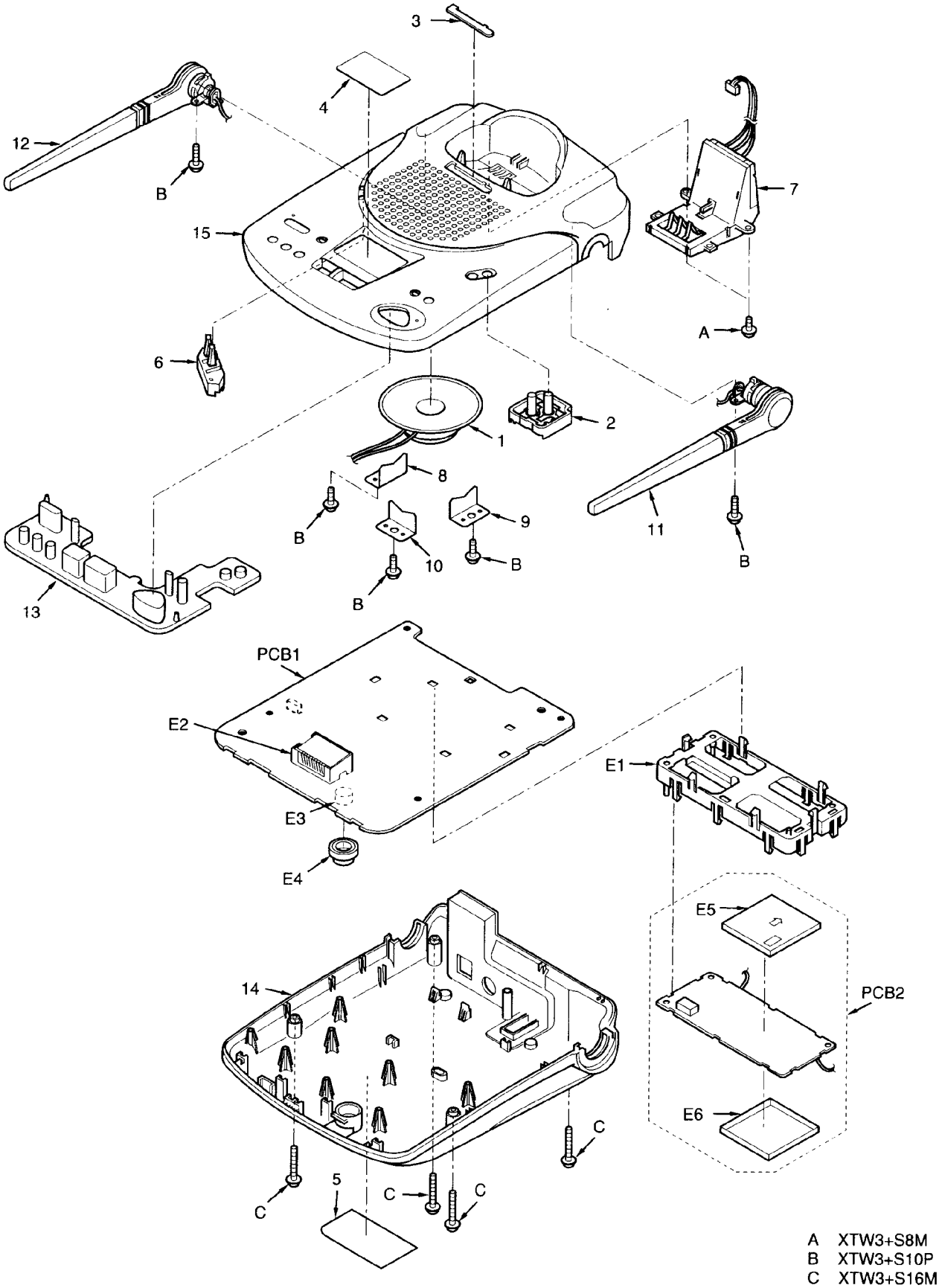
BLOCK DIAGRAM (Handset-RF)



BLOCK DIAGRAM (Handset-Main)

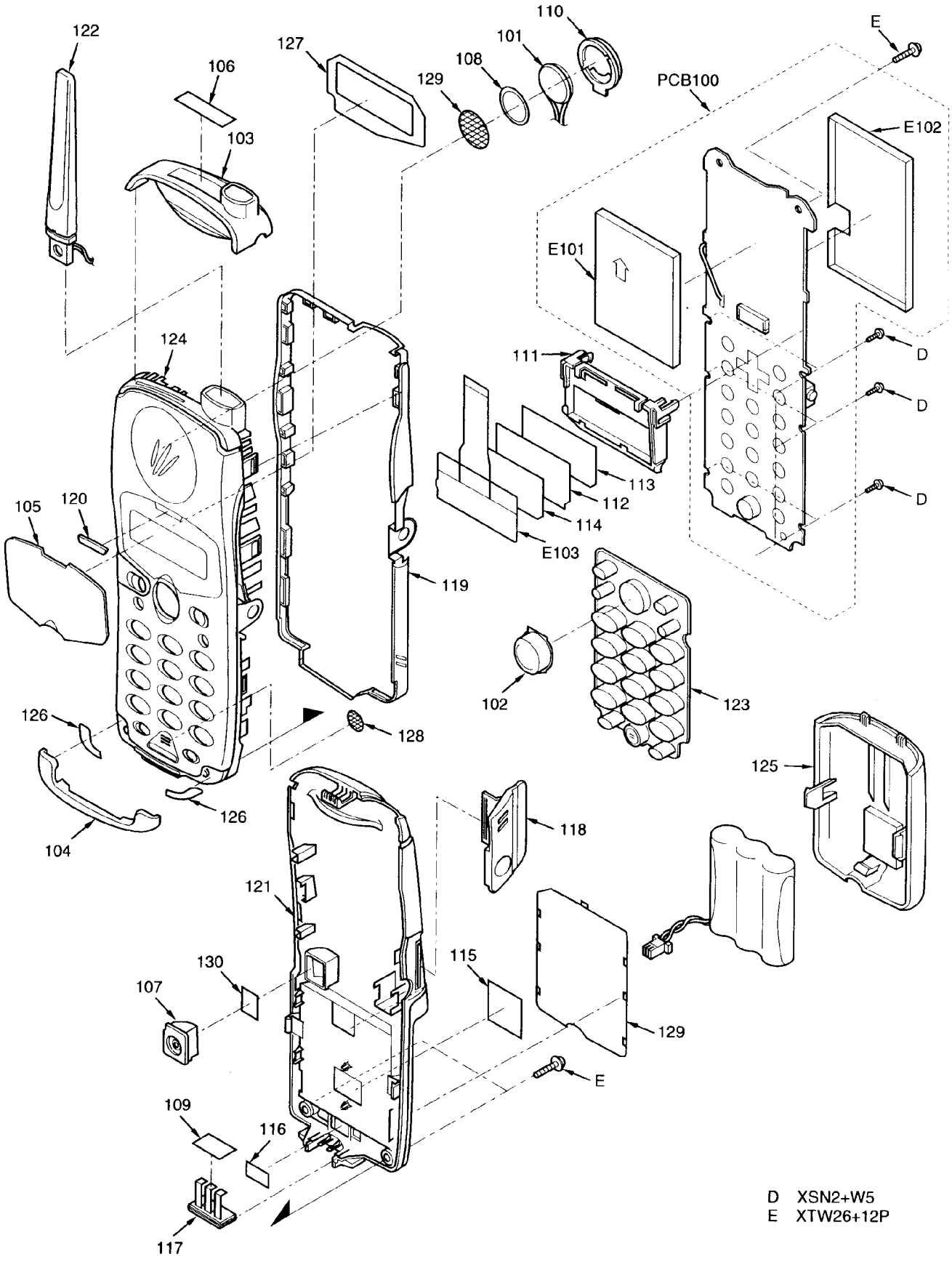


CABINET AND ELECTRICAL PARTS LOCATION (Base Unit)

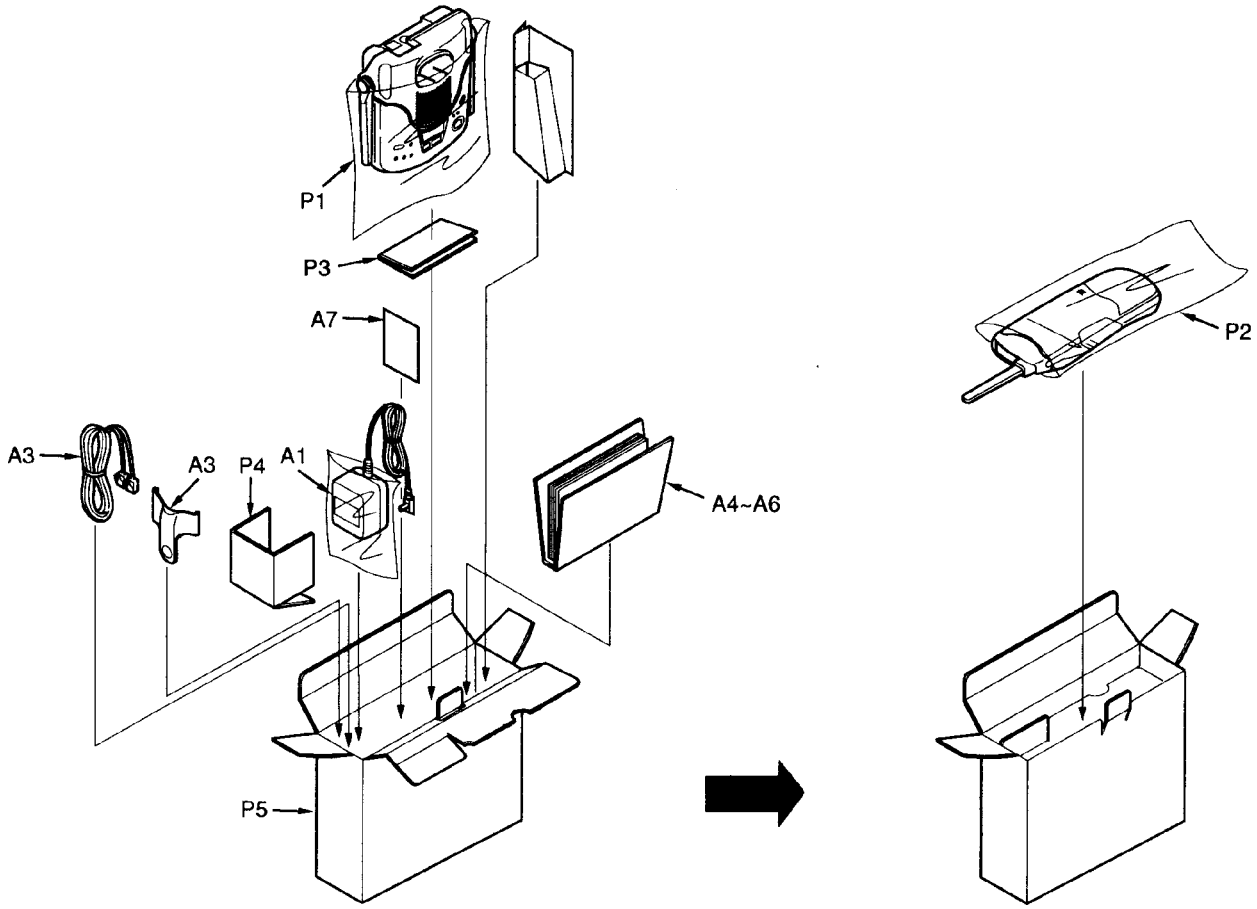


A XTW3+S8M
B XTW3+S10P
C XTW3+S16M

CABINET AND ELECTRICAL PARTS LOCATION (Handset)



ACCESSORY AND PACKING MATERIALS



Base Unit

Notes:

1. The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
2. Important safety notice.
   Components identified by the ⚠ mark special characteristics important for safety.
   When replacing any of these components, use only manufacturer's specified parts.
3. The S mark indicates service standard parts and may differ from production parts.
4. RESISTORS & CAPACITORS
   Unless otherwise specified.
   All resistors are in ohms (Ω) k=1000Ω, M=1000kΩ
   All capacitors are in MICRO FARADS(μF) P= μμF
   *Type &Wattage of Resistor

Type

ERC:Solid	ERX:Metal Film	PQRD:Carbon
ERD:Carbon	ERG:Metal Oxide	PQRQ:Fuse
PQ4R:Chip	ERO:Metal Film	ERF:Wire Wound

Wattage

10,16,18:1/8W	14,25,S2:1/4W	12,50,S1:1/2W	1:1W	2:2W	5:5W

ECFD:Semi-Conductor	ECCD,ECKD,PQCBC,PQVP : Ceramic
ECQS:Styrol	ECQM,ECQV,ECQE,ECQU,ECQB : Polyester
PQCBX,ECUV:Chip	ECEA,ECSZ,ECOS : Electrolytic
ECMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H: 50V	05: 50V	OF:3.15V	OJ :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		OJ:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description		Pcs
		CABINET AND ELECTRICAL PARTS		
1	PQAS5P01Y	SPEAKER		1
2	PQBX10326Z1	BUTTON, VOLUME	S	1
3	PQGB7Y	BADGE		1
4	PQGP10153Z1	LCD PANEL	S	1
5	PQGT13761Z	NAME PLATE (KX-TG2570S)	⚠	1
6	PQHR10667Y	LED LENS		1
7	PQJT10154Z	BATTERY TERMINAL		1
8	PQMS10008Z	SPEAKER HOLDER		1
9	PQMS10009Z	SPEAKER HOLDER		1
10	PQMS10010Z	SPEAKER HOLDER		1
11	PQSA10086Z	ANTENNA (900M)		1
12	PQSA10087Z	ANTENNA (2.4G)		1
13	PQSX10105Z	RUBBER SWITCH, TAM		1
14	PQYF10150W1	LOWER CABINET (KX-TG2570B)	S	1
14	PQYF10150T1	LOWER CABINET (KX-TG2570S)	S	1
15	PQYM10079Z1	UPPER CABINET (KX-TG2570B)	S	1
15	PQYM10079Z2	UPPER CABINET (KX-TG2570S)	S	1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		MAIN P.C.BOARD PARTS		
PCB1	PQWPTG2570BH	MAIN P.C.BOARD ASS'Y (RTL⚠)		1
		(ICS)		
IC301	PQVIBA06FPE2	IC		1
IC401	AN6137SB	IC		1
IC701	PQVI16559ADB	IC		1
IC702	PQWITG2570BH	IC ASS'Y		1
		(TRANSISTORS)		
Q101	2SA1625	TRANSISTOR(SI)		1
Q102	PQVT2N6517CA	TRANSISTOR(SI)		1
Q103	2SD601R	TRANSISTOR(SI)	S	1
Q105	2SC2120	TRANSISTOR(SI)		1
Q106	2SD601R	TRANSISTOR(SI)	S	1
Q201	UN5216	TRANSISTOR(SI)		1
Q301	2SD601R	TRANSISTOR(SI)	S	1
Q303	UN5113	TRANSISTOR(SI)		1
Q311	2SD2136	TRANSISTOR(SI)		1
Q312	2SD1994A	TRANSISTOR(SI)		1
Q313	2SD601R	TRANSISTOR(SI)	S	1
Q401	2SD1819A	TRANSISTOR(SI)		1
Q402	2SD1819A	TRANSISTOR(SI)		1
Q411	UN5213	TRANSISTOR(SI)		1
Q700	2SD601R	TRANSISTOR(SI)	S	1
Q751	UN5213	TRANSISTOR(SI)		1
Q752	2SD1819A	TRANSISTOR(SI)		1
Q753	UN5213	TRANSISTOR(SI)		1
Q761	UN5213	TRANSISTOR(SI)		1
Q902	2SD2137	TRANSISTOR(SI)		1
Q903	2SA1309	TRANSISTOR(SI)		1
Q904	UN5213	TRANSISTOR(SI)	S	1
		(DIODES)		
D101	PQVDS1ZB40F1	DIODE(SI)	S	1
D102	MA4180	DIODE(SI)	S	1
D105	MA153	DIODE(SI)		1
D106	MA4020	DIODE(SI)		1
D120	MA111	DIODE(SI)		1
D121	MA111	DIODE(SI)		1
D301	MA4051	DIODE(SI)		1
D303	PQVDS5688G	DIODE(SI)		1
D304	PQVDS5688G	DIODE(SI)		1
D305	PQVDS5688G	DIODE(SI)		1
D306	MA4300	DIODE(SI)		1
D311	MA4300	DIODE(SI)		1
D312	MA4300	DIODE(SI)		1
D313	MA4300	DIODE(SI)		1
D314	MA4039	DIODE(SI)		1
D411	MA153	DIODE(SI)		1
D701	MA111	DIODE(SI)		1
D702	MA111	DIODE(SI)		1
D710	MA111	DIODE(SI)		1
D711	MA111	DIODE(SI)		1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
D750	MA8039	DIODE(SI)		1
D900	PQVDEC10	DIODE(SI)		1
D902	PQVDS5688G	DIODE(SI)		1
D904	MA4043	DIODE(SI)		1
		(LEDS)		
LED701	PQVDPY1112H	LED	S	1
LED702	PQVDSML210LT	LED		1
LED703	PQVDSML210LT	LED		1
LED704	PQVDSML210LT	LED		1
		(COILS)		
L101	PQLQXF330K	COIL		1
L102	PQLQXF330K	COIL		1
L302	PQLQXH181K	COIL		1
L304	PQLQR2KA213	COIL		1
L311	PQLQXF100K	COIL		1
L312	PQLQZM330K	COIL		1
L313	PQLQXF100K	COIL		1
L700	PQLQR2KA213	COIL		1
L701	PQLQR2KA213	COIL		1
L702	PQLQR2KA213	COIL		1
L704	PQLQR2KA213	COIL		1
L800	PQLQXF100K	COIL		1
L801	PQLQXF100K	COIL		1
		(CONNECTORS)		
CN102	PQJP24B81Z	CONNECTOR		1
CN301	PQJP03B70Z	CONNECTOR		1
		(JACKS)		
TEL-JA	PQJJ1TA15Z	JACK	S	1
DC-JAC	PQJJ1B4Y	JACK		1
		(VARIABLE RESISTORS)		
VR401	EVN5ESX50B54	VARIABLE RESISTOR		1
VR402	EVN5ESX50B24	VARIABLE RESISTOR		1
		(SURGE ABSORBERS)		
SA101	PQVDDSS301L	SURGE ABSORBER		1
SA102	PQVDDSS301L	SURGE ABSORBER		1
		(RESISTOR ARRAYS)		
RA1	EXRV8V221JV	RESISTOR ARRAY, 220		1
RA2	EXRV8V221JV	RESISTOR ARRAY, 220		1
RA3	EXRV8V221JV	RESISTOR ARRAY, 220		1
RA4	EXRV8V000	RESISTOR ARRAY, 0		1
RA5	EXRV8V000	RESISTOR ARRAY, 0		1
		(OTHERS)		
E1	PQHR10668Z	RF HOLDER		1
E2	PQHR10679Z	LCD HOLDER		1
E3	PQJM122Z	MICROPHONE		1
E4	PQMG10023Z	MIC CUSHION		1
E5	PQMC10333Z	SHIELD COVER		1
E6	PQMC10334Z	SHIELD COVER		1
LCD	PQADHLC7124	LCD		1

Ref. No.	Part No.	Part Name & Description & Value		Pcs/Set
PO101	PQRPAR390N	THERMISTOR	S	1
X701	PQVCK4096N9Z	CRYSTAL OSCILLATOR		1
		(RESISTORS)		
R101	ERDS2TJ825	8.2M		1
R102	PQ4R10XJ335	3.3M		1
R103	PQ4R10XJ473	47		1
R104	PQ4R10XJ104	100k		1
R105	ERDS2TJ472	4.7k		1
R106	PQ4R10XJ394	390k		1
R107	PQ4R10XJ394	390k		1
R108	ERJ3GEYJ125	1.2M		1
R109	PQ4R10XJ472	4.7k		1
R112	PQ4R10XJ000	0		1
R113	PQ4R10XJ182	1.8k		1
R114	PQ4R10XJ820	82		1
R115	ERDS1TJ330	33	S	1
R117	PQ4R10XJ102	1k		1
R118	PQ4R10XJ153	15k		1
R120	ERJ3GEYJ154	150k		1
R121	PQ4R10XJ154	150k		1
R122	ERJ3GEYJ562	5.6k		1
R123	ERJ3GEYJ473	47k		1
R124	ERJ3GEYJ153	15k		1
R125	PQ4R10XJ182	1.8k		1
R150	ERDS2TJ4R7	4.7		1
R201	ERJ3GEYJ103	10k		1
R301	PQ4R10XJ563	56k		1
R302	PQ4R10XJ561	560		1
R306	ERJ3GEYJ104	100k		1
R311	PQ4R10XJ000	0		1
R312	ERJ3GEYJ473	47k		1
R313	ERDS2TJ103	10k		1
R314	ERDS2TJ331	330		1
R316	ERDS1TJ560	56	S	1
R317	ERDS1TJ560	56	S	1
R318	PQ4R10XJ682	6.8k		1
R319	ERJ3GEYJ104	100k		1
R320	ERDS2TJ102	1k		1
R321	ERJ3GEYJ104	100k		1
R322	ERDS1TJ560	56	S	1
R323	ERDS2TJ331	330		1
R401	ERJ3GEY0R00	0		1
R402	ERJ3GEY0R00	0		1
R403	ERJ3GEYJ101	100		1
R404	ERJ3GEYJ101	100		1
R405	ERJ3GEYJ102	1k		1
R406	ERJ3GEY0R00	0		1
R407	ERJ3GEYJ104	100k		1

Ref. No.	Part No.	Value	Pcs/Set
R408	ERJ3GEYJ153	15k	1
R409	ERJ3GEY0R00	0	1
R410	ERJ3GEYJ392	3.9k	1
R412	ERJ3GEYJ153	15k	1
R413	ERJ3GEYJ333	33k	1
R414	ERJ3GEYJ473	47k	1
R415	ERJ3GEYJ334	330k	1
R416	ERJ3GEYJ333	33k	1
R417	ERJ3GEYJ153	15k	1
R418	ERJ3GEYJ153	15k	1
R419	ERJ3GEYJ224	220k	1
R421	ERJ3GEY0R00	0	1
R424	ERJ3GEYJ822	8.2k	1
R425	ERJ3GEYJ104	100k	1
R426	ERJ3GEYJ334	330k	1
R431	ERJ3GEYJ332	3.3k	1
R433	ERJ3GEYJ222	2.2k	1
R434	ERJ3GEYJ471	470	1
R435	ERJ3GEYJ105	1M	1
R441	ERJ3GEY0R00	0	1
R442	ERJ3GEYJ101	100	1
R443	ERJ3GEYJ101	100	1
R444	ERJ3GEYJ101	100	1
R445	ERJ3GEYJ101	100	1
R446	ERJ3GEYJ101	100	1
R451	ERJ3GEYJ103	10k	1
R700	ERJ3GEYJ391	390	1
R701	ERJ3GEYJ104	100k	1
R702	ERJ3GEYJ681	680	1
R703	ERJ3GEYJ681	680	1
R704	ERJ3GEYJ681	680	1
R705	ERJ3GEYJ681	680	1
R706	ERJ3GEYJ105	1M	1
R707	ERJ3GEYJ563	56k	1
R708	ERJ3GEYJ563	56k	1
R709	ERJ3GEYJ564	560k	1
R710	ERJ3GEYJ474	470k	1
R711	ERJ3GEYJ563	56k	1
R712	ERJ3GEYJ474	470k	1
R714	ERJ3GEYJ562	5.6k	1
R715	ERJ3GEYJ392	3.9k	1
R716	ERJ3GEYJ564	560k	1
R717	ERJ3GEYJ224	220k	1
R718	ERJ3GEYJ103	10k	1
R719	ERJ3GEYJ222	2.2k	1
R720	ERJ3GEYJ104	100k	1
R721	ERJ3GEYJ104	100k	1
R722	ERJ3GEYJ104	100k	1
R723	ERJ3GEYJ222	2.2k	1
R724	ERJ3GEYJ332	3.3k	1
R725	ERJ3GEYJ102	1k	1
R726	ERJ3GEYJ102	1k	1
R727	ERJ3GEYJ102	1k	1
R728	ERJ3GEYJ102	1k	1
R731	ERJ3GEYJ104	100k	1
R732	ERJ3GEYJ104	100k	1
R733	ERJ3GEYJ104	100k	1
R734	ERJ3GEYJ104	100k	1
R738	ERJ3GEYJ103	10k	1
R739	ERJ3GEYJ103	10k	1
R740	ERJ3GEYJ102	1k	1

Ref. No.	Part No.	Value		Pcs/Set
R749	ERJ3GEYJ104	100k		1
R750	ERJ3GEYJ223	22k		1
R751	ERJ3GEYJ563	56k		1
R752	ERJ3GEYJ474	470k		1
R753	ERJ3GEYJ102	1k		1
R755	ERJ3GEYJ392	3.9k		1
R757	ERJ3GEYJ104	100k		1
R761	ERJ3GEYJ104	100k		1
R762	ERJ3GEYJ104	100k		1
R771	ERJ3GEYJ221	220		1
R772	ERJ3GEYJ221	220		1
R773	ERJ3GEYJ221	220		1
R774	ERJ3GEYJ221	220		1
R775	ERJ3GEYJ221	220		1
R781	ERJ3GEYJ102	1k		1
R782	ERJ3GEYJ102	1k		1
R783	ERJ3GEYJ102	1k		1
R784	ERJ3GEYJ102	1k		1
R785	ERJ3GEYJ102	1k		1
R786	ERJ3GEYJ102	1k		1
R787	ERJ3GEYJ102	1k		1
R821	ERJ3GEY0R00	0		1
R908	ERJ3GEYJ103	10k		1
R909	ERJ3GEYJ103	10k		1
R910	ERDS2TJ331	330		1
R911	ERDS1VJ2R2	2.2		1
R912	ERDS1VJ2R2	2.2		1
R913	ERDS1VJ2R2	2.2		1
R914	ERDS1VJ2R2	2.2		1
R915	ERDS1VJ2R2	2.2		1
R918	ERJ3GEYJ102	1k		1
L703	PQ4R10XJ000	0		1
		(CAPACITORS)		
C101	PQCUV1H681JC	680P	S	1
C102	PQCUV1H681JC	680P	S	1
C103	ECKD2H681KB	680P	S	1
C104	ECKD2H681KB	680P	S	1
C105	PQCUV1E104MD	0.1	S	1
C106	PQCUV1H563KB	0.056		1
C107	ECEA1CKS100	10	S	1
C108	ECEA1HKS3R3	3.3	S	1
C111	PQCUV1H103KB	0.01		1
C112	PQCUV1H331JC	330P		1
C113	PQCUV1H101JC	100P		1
C115	PQCUV1H154KR	0.15		1
C116	PQCUV1H154KR	0.15		1
C117	ECUV1A224KBV	0.22		1

Ref. No.	Part No.	Value		Pcs/Set
C118	ECUV1H333KDV	0.033	S	1
C120	PQCUV1H102J	0.001	S	1
C121	ECUV1C104ZFV	0.1		1
C122	ECUV1H102KBV	0.001		1
C302	ECEA0JU102	1000		1
C303	ECEA1AU101	100		1
C304	ECEA0JU102	1000		1
C305	ECEA1AU221	220		1
C307	PQCUV1C105ZF	1		1
C308	ECUV1H102KB	0.001		1
C313	PQCUV1C105ZF	1		1
C314	ECUV1A105ZFV	1		1
C317	ECUV1H102KBV	0.001		1
C334	ECUV1C104KBV	0.1		1
C351	PQCUV1H070DC	7P		1
C354	PQCUV1H102J	0.001	S	1
C402	ECUV1C104KBV	0.1		1
C405	ECEA1CKS220	22		1
C406	ECEA1CKS220	22	S	1
C407	ECUV1C104KBV	0.1		1
C408	ECEA1AU331	330		1
C409	ECUV1C104KBV	0.1		1
C410	ECUV1C104KBV	0.1		1
C411	PQCUV1C334KB	0.33		1
C412	ECEA1VKS4R7	4.7	S	1
C413	ECUV1H222KBV	0.0022		1
C414	ECUV1H222KBV	0.0022		1
C415	ECEA1HKS2R2	2.2	S	1
C416	ECUV1H102KBV	0.001		1
C417	ECUV1H682KBV	0.0068		1
C418	ECEA1VKS4R7	4.7	S	1
C419	ECUV1C104KBV	0.1		1
C420	ECUV1C104KBV	0.1		1
C422	ERJ3GEYJ105	1M		1
C423	ECUV1A105ZFV	1		1
C424	ECUV1H222KBV	0.0022		1
C425	ECUV1C104KBV	0.1		1
C426	ECUV1C104KBV	0.1		1
C431	ECUV1C104KBV	0.1		1
C432	ECUV1A105ZFV	1		1
C435	ERJ3GEYJ102	1k		1
C431	ECUV1C104KBV	0.1		1
C432	ECUV1A105ZFV	1		1
C435	ERJ3GEYJ102	1k		1
C441	ECUV1H101JCV	100P		1
C442	ECUV1H101JCV	100P		1
C443	ECUV1H101JCV	100P		1
C451	ECUV1H103KBV	0.01	S	1
C550	ECUV1H103KBV	0.01		1
C551	ECUV1C104ZFV	0.1	S	1
C701	ECUV1C104ZFV	0.1		1
C702	ECUV1C104ZFV	0.1		1
C703	ECUV1H100DCV	10P	S	1
C704	ECUV1H100DCV	10P	S	1
C705	ECUV1C104ZFV	0.1		1
C706	ECUV1H102KBV	0.001		1
C707	ECUV1C104ZFV	0.1		1
C708	EECW5R5D473	0.047	S	1
C709	ECUV1C104KBV	0.1		1
C710	ECUV1C104KBV	0.1		1
C711	ECUV1H101JCV	100P		1
C712	ECUV1H820JCV	82P		1
C713	ECUV1H221JCV	220P		1
C714	ECUV1A224KBV	0.22		1
C715	ECUV1A224KBV	0.22		1
C716	ECUV1C563KBV	0.056		1
C717	ECUV1H331JCV	330P		1
C718	ECUV1C104KBV	0.1		1
C719	ECUV1A105ZFV	1		1
C720	ECUV1C473KBV	0.047		1
C721	PQCUV1C224ZF	0.22	S	1
C724	ECUV1C104ZFV	0.1		1
C725	ECUV1H102KBV	0.001		1
C726	ECUV1C104ZFV	0.1		1
C727	ECUV1H102KBV	0.001		1
C730	ECUV1A105ZFV	1		1
C731	ECUV1H103KBV	0.01	S	1
C732	ECEA1AKA101	100		1
C733	ECUV1C104KBV	0.1		1
C751	ECUV1H101JCV	100P		1
C752	ECUV1H101JCV	100P		1
C753	ECUV1H101JCV	100P		1
C758	PQCUV1C105ZF	1		1
C761	ECUV1H101JCV	100P		1
C762	ECUV1H101JCV	100P		1
C763	ECUV1H101JCV	100P		1
C764	ECUV1H101JCV	100P		1
C767	ECUV1H562KBV	0.0056		1
C768	ECUV1H102KBV	0.001		1
C771	ECUV1H102KBV	0.001		1
C772	ECUV1H102KBV	0.001		1
C773	ECUV1H101JCV	100P		1
C774	ECUV1H101JCV	100P		1
C775	ECUV1H102KBV	0.001		1
C776	ECUV1H102KBV	0.001		1
C777	ECUV1H101JCV	100P		1
C778	ECUV1H102KBV	0.001		1
C779	ECUV1H102KBV	0.001		1
C800	ECUV1C104ZFV	0.1		1
C813	ECUV1C104ZFV	0.1		1
C814	ECUV1C104ZFV	0.1		1
C816	ECUV1C104ZFV	0.1		1
C903	ECEA1AU101	100		1
C904	ECEA1AU221	220		1
C906	PQCUV1C105ZF	1		1

RF UNIT PARTS			
PCB2	PQLP10221Z	RF P.C.BOARD ASS'Y	1

Handset

Notes:

1. The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
2. Important safety notice.
   Components identified by the ⚠ mark special characteristics important for safety.
   When replacing any of these components, use only manufacturer's specified parts.
3. The S mark indicates service standard parts and may differ from production parts.
4. RESISTORS & CAPACITORS
   Unless otherwise specified.
   All resistors are in ohms (Ω) k=1000Ω M=1000kΩ
   All capacitors are in MICRO FARADS(μF) P= μμF
   *Type &Wattage of Resistor
   Type

ERC:Solid	ERX:Metal Film	PQRD:Carbon
ERD:Carbon	ERG:Metal Oxide	PQRQ:Fuse
PQ4R:Chip	ERO:Metal Film	ERF:Wire Wound

Wattage

10,16,18:1/8W	14,25,S2:1/4W	12,50,S1:1/2W	1:1W	2:2W	5:5W

ECFD:Semi-Conductor	ECCD,ECKD,PQCBC,PQVP : Ceramic
ECQS:Styrol	ECQM,ECQV,ECQE,ECQU,ECQB : Polyester
PQCBX,ECUV:Chip	ECEA,ECSZ,ECOS : Electrolytic
ECMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H: 50V	05: 50V	OF:3.15V	OJ :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		OJ:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description		Pcs
		CABINET AND ELECTRICAL PARTS		
101	PQAS15P01Z	SPEAKER		1
102	PQBC10283Z1	BUTTON, NAVIGATOR	S	1
103	PQGG10091V1	GRILE, TOP		1
104	PQGG10092Z1	GRILLE, BOTTOM	S	1
105	PQGP10150Z1	LCD PANEL	S	1
106	PQGT13948Z	NAME PLATE (KX-TG2570B)		1
106	PQGT13765Z	NAME PLATE (KX-TG2570S)		
107	PQHG10533Z	RUBBER, BUZZER		1
108	PQHG10534Z	RUBBER, SPEAKER		1
109	PQHG10537Z	RUBBER CHARGE TERMINAL		1
110	PQHR10672Z	SPEAKER HOLDER		1
111	PQHR10674Z	LCD HOLDER		1
112	PQHR10683Z	LCD PLATE		1
113	PQHX10890Z	REFLECTION PLATE		1
114	PQHX10891Z	LCD COVER SHEET		1
115	PQHX10893Z	COVER SHEET		1
116	PQHX10903Z	COVER SHEET		1
117	PQJT10155Z	BATTERY TERMINAL		1
118	PQKE10085Z1	HEADSET JACK CAP	S	1
119	PQKE10086Z1	GRIP RUBBER	S	1
120	PQKE10087Z1	LCD RUBBER	S	1
121	PQKF10292Z1	REAR CABINET (KXTG2570B)		1
121	PQKF10292Z2	REAR CABINET (KXTG2570S)		1
122	PQSA10088Z	ANTENNA		1
123	PQWS10003Z	RUBBER SWITCH		1
124	PQYM10078W1	FRONT CABINET (KX-TG2570B)	S	1
124	PQYM10078W2	FRONT CABINET (KX-TG2570S)	S	1
125	PQYNTG2550BR	BATTERY COVER ASS'Y (KX-TG2570B)		1
125	PQYNTG2550SR	BATTERY COVER ASS'Y (KX-TG2570S)		1
126	PQYZTG2550BR	DOUBLE SIDE TAPE ASS'Y		1
127	PQHS10391Z	LCD CUSHION		1
128	PQHS10386Z	MIC SHEET		1
129	PQHS10385Z	SPEAKER SHEET		1
130	PQHS10384Z	BUZZER SHEET		1
		MAIN P.C.BOARD PARTS		
PCB100	PQWPTG2570BR	MAIN P.C.BOARD ASS'Y (RTL)		1
		(ICS)		
IC201	AN6139FA	IC		1
IC450	NN6865NFHQ	IC		1
IC500	AN6138SHE1	IC		1
IC600	PQVINJM2904V	IC		1
IC600	PQVINJM2904V	IC		1
IC620	PQVIMB8L3040	IC		1
IC680	PQVIMM1385EN	IC		1
IC690	PQVIMM1385HN	IC		1
IC901	PQVI3625Q10H	IC		1
		(TRANSISTORS)		
Q201	PQVTD123T146	TRANSISTOR(SI)	S	1
Q202	PQVTD123T146	TRANSISTOR(SI)	S	1
Q203	2SD1819A	TRANSISTOR(SI)		1
Q204	2SD1819A	TRANSISTOR(SI)		1
Q205	2SD1819A	TRANSISTOR(SI)		1
Q206	UN5213	TRANSISTOR(SI)	S	1
Q251	2SB1218A	TRANSISTOR(SI)	S	1
Q252	2SB1218A	TRANSISTOR(SI)	S	1
Q400	2SC4536	TRANSISTOR(SI)		1
Q401	2SC5454	TRANSISTOR(SI)		1
Q402	2SC5454	TRANSISTOR(SI)		1
Q403	PQVTD123J106	TRANSISTOR(SI)	S	1
Q490	2SC4571R77	TRANSISTOR(SI)	S	1
Q500	2SD1819A	TRANSISTOR(SI)		1
Q530	2SC4099NT106	TRANSISTOR(SI)		1
Q630	2SC4571R77	TRANSISTOR(SI)	S	1
Q670	2SA1036KQ146	TRANSISTOR(SI)	S	1
Q671	PQVTDTC144TU	TRANSISTOR(SI)		1
Q701	PQVTDTA143TU	TRANSISTOR(SI)		1
Q901	PQVTDTC143E	TRANSISTOR(SI)		1
		(DIODES)		
D201	PQVDPTZTE25	DIODE(SI)	S	1
D202	MA8150	DIODE(SI)		1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
D203	MA111	DIODE(SI)		1
D204	PQVDEC10	DIODE(SI)		1
D205	MA8150	DIODE(SI)		1
D207	MA111	DIODE(SI)		1
D208	MA8150	DIODE(SI)		1
D400	MA111	DIODE(SI)		1
D901	MA728	DIODE(SI)	S	1
		(LEDS)		
LED901	PQVDSML310MT	LED	S	1
LED902	PQVDSML310MT	LED	S	1
LED903	PQVDSML310MT	LED	S	1
LED904	PQVDSML310MT	LED	S	1
LED905	PQVDSML310MT	LED	S	1
LED906	PQVDSML310MT	LED	S	1
LED907	PQVDSML310MT	LED	S	1
		(CERAMIC FILTERS)		
FL430	PQVFSG27C245	CERAMIC FILTER		1
FL450	PQVFSL19B915	CERAMIC FILTER		1
FL500	PQVFMKFC5176	CERAMIC FILTER	S	1
FL501	PQVFSE108MTE	CERAMIC FILTER	S	1
L500	PQVFCDACV108	CERAMIC FILTER	S	1
		(CHARGE TERMINALS)		
CHG(-)	PQJT10152Z	CHARGE TERMINAL		1
CHG(+)	PQJT10152Z	CHARGE TERMINAL		1
CHG(C)	PQJT10152Z	CHARGE TERMINAL		1
		(COILS)		
L201	PQLQR3E1R0K	COIL		1
L202	PQLQR3E1R0K	COIL		1
L203	PQLQR3E1R0K	COIL		1
L402	PQLQR4C6N8J	COIL		1
L403	PQLQR4C3N9S	COIL		1
L404	PQLQR4C8N2J	COIL		1
L405	PQLQR4C6N8J	COIL		1
L406	PQLQR4C10NJ	COIL		1
L407	PQLQR4C6N8J	COIL		1
L408	PQLQR4C3N3S	COIL		1
L420	PQLQR4C5N6S	COIL		1
L421	PQLQR4C18NJ	COIL		1
L422	PQLQR4C3N9S	COIL		1
L432	PQLQR4C2N7S	COIL		1
L433	MQLRE1N5DF	COIL		1
L434	PQLQR4C1N8S	COIL		1
L451	PQLQR4C8N2J	COIL		1
L470	PQLQR3ER56K	COIL		1
L530	PQLQR4CR10J	COIL		1
L590	PQLQR3E560J	COIL		1
L600	PQLQR3E560J	COIL		1
C437	PQLQR4C10NJ	COIL		1
C438	PQLQR4C1N0S	COIL		1

Ref. No.	Part No.	Part Name & Description & Value		Pcs/Set
C447	PQLQR4C2N2S	COIL		1
		(CONNECTORS)		
CN202	PQJP2D13Z	CONNECTOR		1
CN702	PQJS22A12Z	CONNECTOR		1
		(CRYSTAL OSCILLATORS)		
X490	PQVC04096N1Z	CRYSTAL OSCILLATOR		1
X901	PQVCL3276N9Z	CRYSTAL OSCILLATOR		1
X902	PQVBTCC3.99M	CRYSTAL OSCILLATOR		1
		(V.C. OSCILLATORS)		
RXVCO	PQV052Z	CRYSTAL OSCILLATOR		1
TXVCO	PQV051Z	CRYSTAL OSCILLATOR		1
		(VARIABLE RESISTORS)		
VR201	EVN5ESX50B15	VARIABLE RESISTOR	S	1
VR202	EVN5ESX50B54	VARIABLE RESISTOR	S	1
VR500	EVN5ESX50B15	VARIABLE RESISTOR	S	1
VR501	EVN5ESX50B15	VARIABLE RESISTOR	S	1
		(OTHERS)		
CN201	PQJJ1J007Z	JACK		1
E101	PQMC10337Z	SHIELD COVER (FRONT)		1
E102	PQMC10338Z	SHIELD COVER (REAR)		1
E103	LNY153C02	LCD		1
MIC	PQJM122Z	MICROPHONE		1
RINGER	PQEFBDB111GF	BUZZER		1
VC490	PQCVTZB10ZA	TRIMMER CAPACITOR		1
		(RESISTORS)		
R200	ERDS2TJ106	10M		1
R201	ERJ3GEYJ820	82		1
R202	ERJ3GEYJ332	3.3k		1
R203	ERJ3GEYJ103	10k		1
R204	ERJ3GEYJ120	12		1
R205	ERJ3GEYJ393	39k		1
R206	ERJ3GEYJ123	12k		1
R207	ERJ3GEYJ104	100k		1
R208	ERJ3GEYJ222	2.2k		1
R209	ERJ3GEYJ563	56k		1
R210	ERJ3GEYJ104	100k		1
R211	ERJ3GEYJ153	15k		1
R213	ERJ3GEYJ103	10k		1
R214	ERJ3GEYJ100	10		1
R215	ERJ3GEYJ153	15k		1
R216	ERJ3GEYJ222	2.2k		1
R217	ERJ3GEYJ220	22		1
R218	ERJ3GEYJ393	39k		1
R220	ERJ3GEYJ103	10k		1

Ref. No.	Part No.	Value	Pcs/Set
R221	ERJ3GEYJ101	100	1
R222	ERJ3GEYJ103	10k	1
R224	ERJ3GEYJ104	100k	1
R225	ERJ3GEYJ563	56k	1
R226	ERJ3GEYJ103	10k	1
R227	ERJ3GEYJ473	47k	1
R228	ERJ3GEYJ273	27k	1
R229	ERJ3GEYJ102	1k	1
R231	ERJ3GEYJ330	33	1
R232	ERJ3GEYJ273	27k	1
R233	ERJ3GEYJ273	27k	1
R234	ERJ3GEYJ273	27k	1
R235	ERJ3GEYJ104	100k	1
R236	ERJ3GEYJ104	100k	1
R237	ERJ3GEYJ473	47k	1
R238	ERJ3GEYJ104	100k	1
R239	ERJ3GEYJ102	1k	1
R241	ERJ3GEYJ222	2.2k	1
R242	ERJ3GEYJ822	8.2k	1
R243	ERJ3GEYJ153	15k	1
R250	ERJ3GEY0R00	0	1
R251	ERJ3GEY0R00	0	1
R254	ERJ3GEY0R00	0	1
R274	ERJ3GEYJ103	10k	1
R275	ERJ3GEYJ103	10K	1
R401	ERJ2GEJ392	3.9k	1
R402	ERJ2GEJ682	6.8k	1
R403	ERJ2GEJ683	68k	1
R404	ERJ2GEJ100	10	1
R405	ERJ2GEJ100	10	1
R406	ERJ2GEJ100	10	1
R407	ERJ2GEJ100	10	1
R408	ERJ2GEJ100	10	1
R409	ERJ2GEJ100	10	1
R420	ERJ2GEJ183	18k	1
R421	ERJ2GEJ333	33k	1
R436	ECUE1H020CCQ	2P	1
R440	ERJ2GEJ470	47	1
R444	ERJ2GEJ181	180	1
R450	ERJ2GEJ100	10	1
R451	ERJ2GEJ220	22	1
R452	ERJ2GEJ103	10k	1
R453	ERJ2GEJ153	15k	1
R454	ERJ2GEJ153	15k	1
R456	ERJ2GEJ100	10	1
R470	ERJ2GEJ100	10	1
R471	ERJ2GEJ100	10	1
R472	ECUE1H040CCQ	4P	1
R475	ERJ2GEJ102	1k	1
R476	ERJ2GEJ103	10k	1
R477	ERJ2GEJ223	22k	1
R478	ERJ2GEJ220	22	1
R479	ERJ2GEJ270	27	1
R490	ERJ2GEJ270	27	1
R491	ERJ2GEJ561	560	1
R492	ERJ2GEJ103	10k	1
R493	ERJ2GEJ103	10k	1
R494	ERJ2GEJ471	470	1
R500	ERJ2GEJ000	0	1

Ref. No.	Part No.	Value	Pcs/Set
R501	ERJ2GEJ000	0	1
R502	ERJ2GEJ102	1k	1
R503	ERJ2GEJ102	1k	1
R504	ERJ2GEJ332	3.3k	1
R505	ERJ2GEJ333	33k	1
R506	ERJ2GEJ394	390k	1
R507	ERJ2GEJ392	3.9k	1
R508	ERJ2GEJ823	82k	1
R509	ERJ2GEJ473	47k	1
R511	ERJ2GEJ473	47k	1
R512	ERJ2GEJ103	10k	1
R513	ERJ2GEJ103	10k	1
R514	ERJ2GEJ681	680	1
R515	ERJ2GEJ000	0	1
R516	ERJ2GEJ000	0	1
R530	ERJ2GEJ100	10	1
R531	ERJ2GEJ331	330	1
R532	ERJ2GEJ334	330k	1
R550	ERJ2GEJ000	0	1
R552	ERJ2GEJ000	0	1
R553	ERJ2GEJ000	0	1
R554	PQLQR4F102M	COIL	1
R555	ERJ2GEJ222	2.2k	1
R557	ERJ2GEJ000	0	1
R558	ERJ2GEJ222	2.2k	1
R559	ERJ2GEJ222	2.2k	1
R560	ERJ2GEJ222	2.2k	1
R561	ERJ2GEJ222	2.2k	1
R563	ERJ2GEJ000	0	1
R564	ERJ2GEJ000	0	1
R565	ERJ2GEJ101	100	1
R566	ERJ2GEJ000	0	1
R567	ERJ2GEJ000	0	1
R568	ERJ2GEJ000	0	1
R590	ERJ2GEJ122	1.2k	1
R591	ERJ2GEJ471	470	1
R592	ERJ2GEJ471	470	1
R593	ERJ2GEJ222	2.2k	1
R600	ERJ2GEJ122	1.2k	1
R601	ERJ2GEJ471	470	1
R602	ERJ2GEJ471	470	1
R603	ERJ2GEJ122	1.2k	1
R604	ERJ2GEJ274	270k	1
R605	ERJ2GEJ103	10k	1
R606	ERJ2GEJ103	10k	1
R607	ERJ2GEJ103	10k	1
R608	ERJ2GEJ103	10k	1
R609	ERJ2GEJ154	150k	1
R610	ERJ2GEJ100	10	1
R611	ERJ2GEJ102	1k	1
R612	ERJ2GEJ821	820	1
R613	ERJ2GEJ103	10k	1
R614	ERJ2GEJ330	33	1
R615	ERJ2GEJ124	120k	1
R620	ERJ2GEJ000	0	1
R621	ERJ2GEJ103	10k	1
R630	ERJ2GEJ103	10k	1
R631	ERJ2GEJ101	100	1
R632	PQLQR4CR10J	COIL	1
R633	ERJ2GEJ104	100k	1
R634	ERJ2GEJ104	100k	1

Ref. No.	Part No.	Value	Pcs/Set
R650	ERJ2GEJ222	2.2k	1
R651	ERJ2GEJ222	2.2k	1
R652	ERJ2GEJ222	2.2k	1
R653	ERJ2GEJ000	0	1
R654	ERJ2GEJ000	0	1
R655	ERJ2GEJ000	0	1
R656	ERJ2GEJ102	1k	1
R659	ERJ2GEJ104	100	1
R671	ERJ2GEJ471	470	1
R681	ERJ2GEJ103	10k	1
R701	ERJ3GEYF434	430k	1
R702	ERJ3GEYF824	820k	1
R703	ERJ3GEYJ104	100k	1
R704	ERJ3GEYJ104	100k	1
R901	ERJ3GEYJ102	1k	1
R902	ERJ3GEYJ104	100k	1
R903	ERJ2GEJ101	100	1
R904	ERJ2GEJ101	100	1
R906	ERJ2GEJ101	100	1
R907	ERJ2GEJ331	330	1
R908	ERJ3GEYJ105	1M	1
R909	ERJ2GEJ331	330	1
R910	ERJ3GEYJ101	100	1
R911	ERJ3GEYJ101	100	1
R912	ERJ2GEJ331	330	1
R913	ERJ3GEYJ105	1M	1
R914	ERJ3GEYJ102	1k	1
R915	ERJ3GEYJ102	1k	1
R916	ERJ3GEYJ105	1M	1
R917	ERJ2GEJ331	330	1
R918	ERJ3GEYJ104	100k	1
R919	ERJ3GEYJ100	10	1
R920	ERJ3GEYJ101	100	1
R921	ERJ3GEYJ101	100	1
R922	ERJ3GEYJ101	100	1
R923	ERJ3GEYJ104	100k	1
R924	ERJ3GEYJ104	100	1
J203	ERJ3GEY0R00	0	1
L401	ERJ2GEJ000	0	1
C474	ERJ2GEJ000	0	1

Ref. No.	Part No.	Value		Pcs/Set
		(CAPACITORS)		
C202	PQCUV1E104MD	0.1	S	1
C203	ECUV1H101JCV	100P		1
C204	ECUV1H103KBV	0.01		1
C205	ECUV1H103KBV	0.01		1
C206	ECUV1H472KBV	0.0047		1
C208	ECUV1H103KBV	0.01		1
C209	ECST0JX476	47		1
C210	ECUV1C104KBV	0.1		1
C211	ECUV1H101JCV	100P		1
C212	ECUV1H103KBV	0.01		1
C213	ECUV1C104KBV	0.1		1
C214	ECUV1H472KBV	0.0047		1
C217	ECUV1A105ZFV	1		1
C218	ECUV1H103KBV	0.01		1
C219	ECUV1H103KBV	0.01		1
C220	ECUV1H222KBV	0.0022		1
C221	ECUV1C104ZFV	0.1		1
C222	ECST0JY106	10		1
C223	ECUV1A105ZFV	1		1
C224	ECUV1C474ZFV	0.47		1
C225	ECST0JY106	10		1
C226	ECEV0JBS331P	330		1
C228	ECUV1H472KBV	0.0047		1
C229	ECUV1H102KBV	0.001		1
C230	ECUV1H102KBV	0.001		1
C231	ECUV1C823KBV	0.082		1
C232	ECUV1A105ZFV	1		1
C233	ECUV1H223KBV	0.022	S	1
C234	ECUV1A105ZFV	1		1
C235	ECUV1A105ZFV	1		1
C236	ECUV1C474ZFV	0.47		1
C237	ECUV1A105ZFV	1		1
C238	ECUV1H101JCV	100P		1
C239	ECUV1C104ZFV	0.1		1
C240	ECUV1H471JCV	470P		1
C242	ECUV1C104ZFV	0.1		1
C244	ECUV1H472KBV	0.0047		1
C246	ECUV1H101JCV	100P		1
C247	ECUV1C104KBV	0.1		1
C251	ECUV1H822KBV	0.0082		1
C253	ECUV1H822KBV	0.0082		1
C259	ECUV1C104KBV	0.1		1
C262	ECUV1C104ZFV	0.1		1
C400	PQLQR4C22NJ	COIL		1
C401	ECUE1H010CCQ	1P		1
C402	ECUE1H030CCQ	3P		1
C403	ECUE1H030CCQ	3P		1
C404	ECUE1H020CCQ	2P		1
C405	ECUE1H470JCQ	47P		1
C406	ECUE1A104KBQ	0.1		1
C407	ECUE1H470JCQ	47P		1
C408	ECUE1H470JCQ	47P		1
C409	ECUE1H030CCQ	3P		1
C410	PQLQR4C3N3S	COIL		1
C411	ECUE1A104KBQ	0.1		1
C412	ECUE1H470JCQ	47P		1
C413	ECUE1H470JCQ	47P		1
C414	ECUE1H030CCQ	3P		1
C415	ECUE1H030CCQ	3P		1
C416	ECUE1H050CCQ	5P		1
C417	ERJ2GEJ000	0		1
C418	ECUE1H010CCQ	1P		1

Ref. No.	Part No.	Value	Pcs/Set
C419	ECUE1H0R5CCQ	0.5	1
C420	ECUE1H470JCQ	47P	1
C421	ECUE1A104KBQ	0.1	1
C422	ECUE1H030CCQ	3P	1
C423	ECUE1H030CCQ	3P	1
C424	ECUE1H050CCQ	5P	1
C425	ECUE1H030CCQ	3P	1
C426	ECUE1H010CCQ	1P	1
C433	ECUE1H030CCQ	3P	1
C434	ECUE1H100DCQ	10P	1
C435	ECUE1A104KBQ	0.1	1
C436	ECUE1H020CCQ	2P	1
C437	PQLQR4C2N7S	COIL	1
C438	PQLQR4C1N8S	COIL	1
C439	PQLQR4C2N2S	COIL	1
C440	ECUE1H010CCQ	1P	1
C441	ECUE1H010CCQ	1P	1
C442	PQLQR4C1N8S	COIL	1
C444	ECUE1H100DCQ	10P	1
C445	ECUE1H020CCQ	2P	1
C450	PQLQR4C1N0S	COIL	1
C451	ECUE1H030CCQ	3P	1
C452	ECUE1H470JCQ	47P	1
C454	ECUE1A104KBQ	0.1	1
C455	ECUE1H030CCQ	3P	1
C456	ECUE1H101JCQ	100P	1
C457	ECUE1H040CCQ	4P	1
C458	ECUV1A224KBV	0.22	1
C459	ECUE1E682KBQ	0.0068	1
C460	ECUE1H332KBQ	0.0033	1
C461	ECUE1H101JCQ	100P	1
C462	ECUE1H101JCQ	100P	1
C463	ECST0JY106	10	1
C464	ECUE1H101JCQ	100P	1
C465	ECUE1H102KBQ	0.001	1
C466	ECUE1H102KBQ	0.001	1
C469	ECUE1H100DCQ	10P	1
C470	ECUE1H070DCQ	7P	1
C471	ECUE1H070DCQ	7P	1
C472	ECUE1H180JCQ	18P	1
C473	ECUE1C103KBQ	0.01	1
C475	ECUE1C103KBQ	0.01	1
C476	ECUE1C103KBQ	0.01	1
C477	ECUE1H070DCQ	7P	1
C478	ERJ2GEJ680	68	1
C480	ECUE1H070DCQ	7P	1
C482	ECUE1H102KBQ	0.001	1
C483	ECST0GC157	15M	1
C484	ECUE1A104KBQ	0.1	1
C485	ECUE1C103KBQ	0.01	1
C487	ECUE1H070DCQ	7P	1
C488	ECUE1H102KBQ	0.001	1
C490	ECUE1C103KBQ	0.01	1
C491	ECUE1H102KBQ	0.001	1
C492	ECUE1C103KBQ	0.01	1
C494	ECUE1H080DCQ	8P	1
C495	ECUE1H270JCQ	27P	1
C495	ECUE1H220JCQ	22P	1
C496	ECUE1H220JCQ	22P	1
C497	ECUE1H102KBQ	0.001	1
C500	ECST1AY106	10	1
C501	ECUE1C103KBQ	0.01	1
C502	ECUE1C223KBQ	0.022	1
C503	ECUE1C103KBQ	0.01	1
C505	ECUE1C103KBQ	0.01	1
C506	ECUE1H102KBQ	0.001	1
C507	ECST0JX336	33	1
C508	ECUE1H181JCQ	180P	1
C509	ECUE1H101JCQ	100P	1
C511	ECST1AY106	10	1
C512	ECUE1A104KBQ	0.1	1
C513	ECUV1A105ZFV	1	1
C514	ECUV1A105ZFV	1	1
C518	ECUE1A104KBQ	0.1	1
C519	ECUE1H102KBQ	0.001	1
C520	ECUE1H470JCQ	47P	1
C521	ECUE1H100DCQ	10P	1
C524	ECUE1H100DCQ	10P	1
C525	ECUE1H470JCQ	47P	1
C526	ECUE1H1R5CCQ	1.5	1
C527	ECUE1H470JCQ	47P	1
C528	ECUE1H100DCQ	10P	1
C529	ECUE1H470JCQ	47P	1
C530	ECUE1H820JCQ	82P	1
C531	ECUE1C103KBQ	0.01	1
C532	ECUE1H330JCQ	33P	1
C533	ECUE1H100DCQ	10P	1
C553	ECUE1H100DCQ	10P	1
C554	ECUE1H100DCQ	10P	1
C570	ECUE1C223KBQ	0.022	1
C571	ECUE1H101JCQ	100P	1
C590	ECUE1A104KBQ	0.1	1
C591	ECUE1H331KBQ	330P	1
C592	ECUE1H331KBQ	330P	1
C593	ECUE1A104KBQ	0.1	1
C600	ECUE1A104KBQ	0.1	1
C601	ECUE1H332KBQ	0.0033	1
C602	ECUE1H332KBQ	0.0033	1
C603	ECUE1A104KBQ	0.1	1
C604	ECUE1C103KBQ	0.01	1
C605	ECUV1A105ZFV	1	1
C606	ECUE1A104KBQ	0.1	1
C607	ECUE1A104KBQ	0.1	1
C608	ECUE1A104KBQ	0.1	1
C609	ECUE1A104KBQ	0.1	1
C610	ECUV1A105ZFV	1	1
C611	ECUV1A105ZFV	1	1
C620	ECUE1H101JCQ	100P	1
C621	ECUE1A104KBQ	0.1	1
C622	ECUE1A104KBQ	0.1	1
C623	ECUE1C103KBQ	0.01	1
C624	ECUE1H470JCQ	47P	1
C631	ECUE1A104KBQ	0.1	1
C632	ECUE1C103KBQ	0.01	1
C633	ECUE1C103KBQ	0.01	1
C634	ECUE1H121JCQ	120P	1
C635	ECST0JY106	10	1
C653	ECUE1H470JCQ	47P	1
C654	ECUE1H470JCQ	47P	1
C655	ECUE1H470JCQ	47P	1
C670	ECUE1H470JCQ	47P	1

Ref. No.	Part No.	Value	Pcs/Set
C671	ECUE1H470JCQ	47P	1
C691	ECUE1A104KBQ	0.1	1
C692	ECUE1A104KBQ	0.1	1
C693	ECUV1C104ZFV	0.1	1
C694	ECUV1A105ZFV	1	1
C701	ECUE1A104KBQ	0.1	1
C702	ECUE1A104KBQ	0.1	1
C703	ECUE1A104KBQ	0.1	1
C704	ECUE1A104KBQ	0.1	1
C705	ECUE1A104KBQ	0.1	1
C706	ECUV1A474KBV	0.47	1
C707	ECUV1A474KBV	0.47	1
C708	ECUV1A474KBV	0.47	1
C901	ECUV1C104ZFV	0.1	1
C904	ECUV1C104ZFV	0.1	1
C905	ECEV0JBS221P	220	1
C906	ECUV1H150JCV	15P	1
C907	ECUV1H150JCV	15P	1
C908	ECUV1H330JCV	33P	1
C909	ECUV1H330JCV	33P	1
C910	ECUV1C104ZFV	0.1	1
L431	ECUE1H040CCQ	4P	1
R435	ECUE1H010CCQ	1P	1

KX-TG2570B/KX-TG2570S			
Ref. No.	Part No.	Part Name & Description	Pcs
		ACCESSORIES	
A1	PQLV10Z	AC ADAPTOR ⚠	1
A2	PQJA10075Z	TEL CORD	1
A3	PQKE10084Z1	BELT CLIP S	1
A4	PQQW12140Z	QUICK REFERENCE GUIDE (English)	1
A5	PQQW12141Z	QUICK REFERENCE GUIDE (Spanish)	1
A6	PQQX12310Z	INSTRUCTION BOOK	1
A7	PQQT11861Z	TAM LABEL	1
		PACKING MATERIALS	
P1	XZB21X35A03	PROTECTION COVER (Base Unit)	1
P2	XZB10X35A02	PROTECTION COVER (Handset)	1
P3	PQPD10434Z	CUSHION	1
P4	PQPD10440Y	CUSHION	1
P5	PQPK12845Z	GIFT BOX (KX-TG2570B)	1
P5	PQPK12879Z	GIFT BOX (KX-TG2570S)	1